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GUAR QUM: Supplies have dwindled ? ter-balanced by poor demand

MENNEWS STATE INSIDE CMR

BHOPAL: Carbide says it has dentified a disgruntled worker whose sabatoge sparked disaster. The Indian government disagrees, asks company to pro-

DRUG FEES: Sen. Hatch sponsors legislation that would establish fees for review of applications for marketing approval of new drugs. CSMA is nut pleased Page 2

PLASTICS: Margins are quiting better, a senior official of Chevron Chemical says. Reduced costs are the major reason for this improvement he belevesPage 5

DISINFECTANTS: Senators charge that closing of Federal test facilities has caused quality of disinfectants to deteriorate and has cost thousands of

SCM SALE: ICI Buys Gildden businesses, formerly a part of CM from Hansson Holdings. Paints and adhesives are inided. The price is \$560 million

POTASHI Producers see little pe of a turnaround in the comletilizer year. Shipments fell Arply. Producers have been ing extensive plant down-······Page 7

Prospects for digress passing legislation to entrol acid rain pollution fined considerably last week House unit decided to put off Page 48

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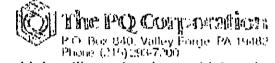


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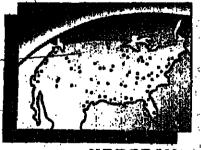
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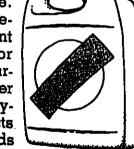
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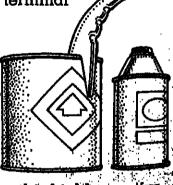
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Drug Regulation User Fees Backed

With the Gramm-Rudman-Hollings balanced budget ties and monitor compliance with the law at the local level. Significant cuts in the funds devoted to these law resulting in a prospective cut of some \$26 million from the Food & Drug Administration budget, Sen. Orrin Hatch (R-Utah), is sponsoring legislation that would shore up funding for the agency's drug approval

The Hatch bill would require the Secretary of Health & Human Services to establish fees for the review of applications for marketing approval of human drugs. antibiotics and biological products.

"The functions of FDA are vital to the health of our citizens," says Sen. Hatch, chairman of the Senate Labor & Human Resources Committee.

"To carry out its legislative mandate, FDA must maintain sophisticated laboratories, a corps of scientific and health professionals, and numerous field officers who inspect manufacturing and processing facili-

duties carry significant risks for our people," says the

The most predictable risk, says Sen. Hatch, is the lengthening of the "already unconscionably long" period of time which a new drug must spend in FDA

This would result in "needless suffering on the part of those who will benefit from new drug therapies which often avoid far more costly forms of treatment," says Sen. Hatch.

The time period for approval could take up to an additional two and a half years if funding for the approval process is cut, he warns.

Under provisions of the New Drug Application Fee Amendments of 1986, HHS would assign appropriate

fees for the application for review of a new drug, antibiotic or biological product.

The bill states that these fees would be used only for costs connected with carrying out the approval activity. HHS would also have the option to waive or reduce the fees in cases where the public interest would be

Exempted from the bill are Abbreviated New Drug Applications (generic drugs) and investigational new drug exemptions which do not result in a new drug

"Since the manufacturer is the primary economic beneficiary of an approved drug application, it is only logical that the cost of the approval process be part of the manufacturer's investment," says Sen. Hatch. "This should bridge the Gramm-Rudman-Hollings gap while making the drug approval process self-support-

The House recently voted to appropriate \$437 mil-

Carbide Discloses Suspect In Its Bhopal Investigation

Seen Worse Then Love Canal

Congress was warned last week that the PCP oil will wipe out that entire town,"

Union Carbide Corporation's disclosure last week that it has narrowed the focus of its Bhopal investigation to a focus of its Bhopal investigation to a "disgruntled" plant worker set off a heated exchange between representatives of the company and the Indian government, which is expected to file suit against Carbide by the end of this month in civil court in India.

"Our investigations to date demonstrate that the Bhopal tragedy was a deliberate act," Carbide sald in a statement last week. 'Those investigations are now focusing on a specific individual employee of the Bhopal plant who was disgruntled, and who had ample opportunity to deliberately inject the large amount of water into the (methyl isocyanate) storage tank which caused the massive gas release."

Some 2,000 people were killed and thou-sands more injured by the release of poisonous MIC gas from the Bhopal plant on

Carbide has long held the position that the leak could only have resulted from a "deliberate act," but last week marked the first time Carbide has said it has an actual sus-

The company declined to comment on published reports that the worker had been demoted a week before the gas loak and was at the MIC unit on the night of the accident without management authorization. The worker, who is Indian, had been assigned to the MIC unit, a Carbide spokesman said. Carbide would not say how long the indi-

toxic waste contamination at an idled

chemical processing plant in a rural Missouri community would "wipe out that

Philip E. Badame, president of Environmental Technology Inc., told the House Government Operation

ernment Operations environment subcom-

mittee, "If you think Love Canal was had, it is

(D-Okla.), held a hearing to examine Environ-

mental Protection Agency's administration

of the Toxic Substances Control Act. TSCA is

expected to be revised by Congress next year.

Mr. Badame said his company considered

cleaning up the wastes at the plant, the Martha C. Rose Chemicals factory, in

Holden, Mo., a town of 2,200 people, located

He attributed the problem largely to poor

regulation and lack of enforcement by EPA's

regional office in Kansas City.

That is a time bomb out there. If there is

ever a fire at the Holden facility, the dioxin

that will be given off from the combustion of

40 miles East of Kansas City.

entire town."

worse out there."

Carbide's disclosure last week fits a scenario constructed by Carbide chairman Warren Anderson at a press conference called by the company in March 1985 to announce the results of its initial Bhopal investigation (CMR, 3/25/85, pg. 3).

At that time, Carbide said the introduction of a large amount of water in MIC storage tank 610 started the runaway chemical reaction that led to the fatal gas leak. While Mr Anderson said the company had not been able to determine how water entered the tank, he suggested that a disgruntled worker might have deliberately connected a water line to

For its part, the Indian government dismissed Carbide's disgruntled worker theory last week. "They have been harping on sabotage from the beginning," said Talmiz Ahmad, the Indian consul in New York. "It may be just a ploy," he added. "They haven't offered a shred of evidence."

Despite acknowledged safety violations at the Bhopal plant, a proven act of sabotage would be an "important factor for the court to weigh" in determining the degree of Carbide's culpobility, a Carbide spokesman

Carbide is said to be still holding out hope for a negotiated settlement, and some observers see last week's disclosure of a sus-

contaminated with PCB's.

monitored the operation.

Lawmakers were told that an estimated 15

to 20 million pounds of PCB's were still

stored at the plant, and cleaning them up

could cost at least \$20 million and take up to

conceded there was extensive contamination

at the plant but said regulators had properly

EPA regional administrator Morris Kay

equipment.

two years.

Chemical Marketing Reporter AU FIFRA Finally Gets Through the Senate

Sweeping legislation designed to reauthoize and update the Federal law regulating the sale and use of pesticides was unanimously approved by the Senate Agriculture Committee last week.

Lawmakers and congressional aides said the strong vote sending the measure to the full Senate adds momentum to a determined effort by Congress to pass amendments to the Federal Insecticide, Fungicide & Rodenticide Act this year.

The House Agriculture Committee aproved its version of the bill June 18, and the House Rules Committee met Friday to clear the way for floor consideration next month. The Senate is also expected to vote on FIFRA

While both bills would speed up the sing-gish process of pesticide reviews by Environmental Protection Agency, the Senate measure would also extend patent life for Toxic Waste Dump in Missouri agricultural chemicals and limit the ability of states to impose stricter standards for pesticide residues on food than those of the Fed-

eral government.
"This bill puts an end to years of controversy on a number of issues," said Sen. Jesse. Helms (R-N.C.), chairman of the Senate Agriculture Committee.

The plant ceased operations last March and the company is the subject of bankruptcy "After many long hours of negotiation and modification, the FIFRA law will now better proceedings by creditors. From 1982, the address itself to the problems farmers enplant processed and disposed of materials counter in modern-day agriculture," said Sen. Helms. "The bill is a workable compromise that will benefit producers, consumers, The chemicals, suspected of causing canmanufacturers, environmentalists, and othcer and birth defects, are heat-resistant comers affected by the use of pesticides." pounds used mainly as coolants in transformers, capacitors and other electrical

FIFRA before it adjourns for the year in early October, it would represent the first comprehensive rewrite of the law in 14 years. Progress has been hindered by a persistent displite between the chemical industry and environmentalists, a log jam broken this year when the two sides finally worked out compromises on the primary issues in the bill.

The Senate committee adopted most of the major provisions of the House bill, but several major amendments were added.

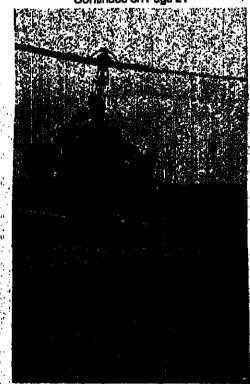
EPA inspectors found record-keeping Most significantly, the panel approved an amendment by Sen. Edward Zorinsky (Dproblems and other violations at the plant since 1983. The agency levied fines, and the company agreed to correct the problems, he Neb.) to extend the patent life of pesticide:

tional Agricultural Chemicals Association.

The amendment represents a negotiated compromise between an organization of 11 major chemical companies that conduct basic research and development work on pesticides, and the Pesticide Producers Association, a group representing small to medium size pesticide companies that seek to market

Under the agreement, the patents of a pesticide subject to regulatory review procedures at EPA may be extended for a term equal to the time lost during the review up to a maximum of five years.

In addition, it would not be considered a patent infringement to conduct tests on a registered pesticide receiving a patent term Continued on Page 21



PESTICIDE LIFTOFF: Legislation passed by Senate adds momentum to determined move in Congress. Here a helicopter delivers barbi-cides.

CHEMICAL MARKETING REPORTER

Hazardous Waste Regulation Tightened Up by US Agency

Under new guidelines issued by Environmental Protection Agency, US exporters of hazardous waste must have prior written consent from foreign nations scheduled to receive the waste, or shipment cannot take place. The new requirement, effective November 8, is contained in final regulations issued by the agency last week as called for in the Resource Conservation & Recovery Act, the Federal hazardous

waste management law. Under the regulations, exporters must notify EPA in advance of intended shipments. EPA Plastics in Ocean: and the State Department will coordinate to provide notification to the receiving country.

Notification will also be provided to any country through which the waste will pass in transit to the receiving country. EPA will the fishing industry alone, Society of then notify the exporter of the country's re- Plastics Industry says. Merchant ves-

"This regulation will for the first time ensure that the receiving country has consented to receive the hazardous waste," says EPA Administrator Lee M. Thomas. He says the rule will prevent international transportation of waste to countries that do not want the waste, while giving countries willing to accept the materials an opportunity to manage

The US Customs Service official at the point of departure will collect a copy of the required manifest which accompanies the shipment. This will allow EPA to work with Customs to monitor and spot-check exports.

In addition, the agency says exporters must file exception reports and submit an annual report summarizing hazardous waste

EPA says exporters should notify the agency at least 60 days before shipment.

Degussa Acquires **Precious Metal Firm**

Degussa Corporation last week said it completed the purchase of Metz Metallurgical Corporation in South Plainfield, N.J.

Metz will be a wholly owned subsidiary of Degussa but with its own Board of Directors

Metz is a 65-year old company well estab-lished in the manufacture of precious metal products. Metz produces precious metal powders, flakes, salts and solutions for the electronic, photographic, chemical, pharmaceutical and automotive industries and metallurgical products such as brazing and electrical contact alloys. Metz also refines precious metals.

The Metz plant and support facilities are located on a 10-acre parcel in South Plainfield, N.J., and employs 210 people.



Paul J. Johnston, who has been named vice-president and general manager of the Coatings Resins Department of Union Carbide. He was previously general manager in the company's Coatings Materials Division.



Up to 150,000 tons a year of plastics are dumped into the world's oceans by seis, boaters, beachgoers and refuse from sewage treatment facilities also contribute thousands of tons per year.

SPI president C.E. O'Connell told the

House Merchant Marine Subcommittee on Coast Guard & Navigation that the plastics industry wants to help solve the problem of plastics pollution in the seas. "We are committed to reducing the likelihood of plastics pellets finding their way into the marine environment, increasing the level of plastics recycling and educating decision-makers and the public about the options for properly disposing of all municipal waste," he de-

He also said the US should ratify a convention conceived in the early 1970's that provides for the prevention of pollution from ships. This so-called "Marpol" convention would prohibit the dumping of garbage, including plastics, from ships.

PPG Is Expanding Taiwan Silica Unit

PPG Industries, Inc. will increase the capacity of its precipitated silica operation in Taiwan by more than 50 percent, bringing the plant's capacity up to 20,000 metric tons

per year.
The expansion, due on stream October 1, will allow the company to meet growing demand for its line of silicas in Japan, Taiwan and Southeast Asian markets, the company

PPG recently launched three other significant chemicals projects in the Far East - a licensing agreement to provide technology and equipment for China's first commercial silicas plant, a joint venture chlorine-caustic soda manufacturing project with China Pet-rochemical Development Corporation in Tal-wan, and an agreement with Tokyo-based Nippon Oil & Fats Co. to pursue specialty chemical projects in Japan.

The silica plant is operated by PPG Industries Taiwan Ltd., a joint venture formed in 1983 by PPG and local Talwan investors. PPG has majority interest in the operation.

Pesticides May Hurt The Immune System

According to a Canadian study, exposure to certain pesticides may weaken the immune system, resulting in increased susceptibility to infection.

A research group from the University of Quebec, Montreal presented findings at the Sixth International Congress of Pesticide Chemistry recently which indicate that eight commonly-used pesticides, among them

Groundwater Guides dieldrin, carbaryl and aminocarb may damage the mammalian immune system.

In laboratory tests, the compounds were found to cause a decline of from 50 to 80 percent in the immune system responses of aboratory animals given doses 10 to 20 times higher than normal environmental levels of

Dr. Michel Fourier, professor in the university's blological sciences department, says that the compounds seem to act by disarming microphages, the white blood cells that alert the rest of the immune system to bacterial or viral invasion.



Donald V. Borst, who has been appointed to the position of president of SCM Industries, a division of Hanso industries, the US arm of Hanson

Nematacide Wins Approval For Testing

Unocal Chemicals Division has gained Federal permission for limited marketing of a pesticide to control nematodes, the tiny parasites that infest roots of various food crops grown throughout the world. In the US alone, crop loss from nematodes is estimated at \$4 billion per year.

According to its developers, the most attractive feature of the nematicide is its ecological compatibility. Unlike other effective nematicides in current use, the new product, code named GY-81, which is shielded by several patents, was designed to pose no risk of contamination to ground water or the plants

'It was designed for use on growing plants and to be environmentally acceptable," says Dr. Don C. Young, who is primarily responsile for the original chemistry of the product at Unocal's Fred L. Hartley Research Center

Magnesium Projects Expected in Canada

Construction of two new magnesium plants with a combined annual capacity of 100,000 metric tons is expected to proceed in Canada, with the result that several US plants could be forced to close.

Fred Fletcher, director of the Chase Econometrics Metals & Materials Group in Bala Cynwyd, Pa., says provincial officials are offering attractive terms for the projects in an effort to attract new industry.

Plants have been proposed by Magnesium Company of Canada Ltd., majority owned by Aluminum Company of America, and by Norsk Hydro As.

It is expected that the new Canadian plants would depress magnesium pricing in North America and possibly force the closing of several higher-cost plants.

issued by US Agency

Environmental Protection Agency is issuing guidance for determining groundwater vulnerability at hazardous waste facilities regulated under the Resource Conservation & Recovery Act, the Federal hazardous waste management disposal law.

The guidance provides RCRA permit writers the technical criteria to evaluate hydrogeologic data submitted in permit applications for hazardous waste land-based treatment, storage and disposal facilities,

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Plastics Margins Getting Better, Chevron Says

The commodity plastic resin business is entering a period of improving profit margins, spurred by tightening supplydemand balances, and lower feedstock costs, according to a senior official of Chevron Chemical Company, a producer

of polyethylenes and polystyrene.
George T. Scott, vice-president of the
Olefins and Derivatives Division at Chevron Chemical told a group of trade editors in New York last week that reduced costs for the major plastics increased their competitiveness against natural products such as paper, metal and glass, which in turn will attract capital for new facilities as they are needed.

Mr. Scott painted a fairly rosy demand picture for high-density polyethylene, polypropylene, and polystyrene this year, by estimating that all three were running 6.5 to 7.5 percent ahead of year earlier levels on an annualized basis. Only low density PE, plagued by high inventories earlier in the

year, is showing sluggish growth.

Despite a flurry of new capacity in Canada, Saudi Arabia and elsewhere, coupled with intense competition from linear low density polyethylene, Mr. Scott says he's Continued on Page 20

Trade Secrets Get Protection Under New Bill

The House Government Operations Committee has approved a bill that would provide businesses greater trade secret protection under the Freedom of Information Act.

The legislation, which is strongly supported by the chemical and pharmaceutical adustries, was approved on a 30-5 roll call

Under the bill, sponsored by Rep. Glenn English (D-Okla.) companies would be re-quired to claim an exemption from FOIA disclosure when they supply the sensitive information to the government.

If a third party requests the information, the government would have to notify the company, and the firm would have ten days to object. The agency would have another ten days to decide whether to release the business recorded whether the recorded

Under present law, the government alone around the country, according to EPA. exempts that material from FOIA's disclosure requirements. Federal agencies and constitutes trade secrets and sure requirements. Federal agencies are requirements. Federal agencies are requirements. decides what constitutes trade secrets and sure requirements. Federal agencies are not required to rolled to required to notify a business when another House. "It is in no way a replacement for a EPA claims exists." party is seeking its records. Paddies vince to vince and an analysis of the second

Disinfectant Problems Cited on Capitol Hill; **CSMA's Engel Rebuts**

infections they catch in hospitals using own testing programs. ineffective disinfectants, but the government laboratory that once tested disinfectants has been closed, two senators

Sens. Paul Sarbanes (D-Md.) and Albert Gore (D-Tenn.) charged that studies show such deaths are the result of the hospitals use of disinfectants and antiseptics that fail to

Sen. Sarbanes, in opening hearings on the issue, cited Public Health Service estimates that infections acquired in hospitals cause more than 20,000 deaths and contribute to another 60,000 every year.

Disinfectants used in hospitals, Sen. Sarbanes noted, were formerly tested at a laboratory operated by Environmental Protection Agency in Beltsville, Md. But the laboratory was closed in 1982.

In closing the laboratory, the government "abandoned completely the Federal role in assuring safe and effective hospital disinfectants," Sen. Sarbanes said.

Now, he said, testing is left to manufactur-

Ralph Engel, president of Chemical Specialties Manufacturers Association, defended the safety of disinfectants and said products that fall a test in one laboratory may pass in another one.

But he said the industry supports legisla-tion proposed by Sen. Gore requiring EPA to resume checking disinfectants and he urged reopening of the Beltsville laboratory out-

The Gore bill would amend the Federal Insecticide, Fungicide & Rodenticide Act to require EPA to "establish, monitor, and enforce efficacy standards for antimicrobial agents used to control pest microorganisms that pose a threat to human health."

The CSMA president told the Joint Economic subcommittee he supports a strengthened role for EPA as well as a single, Federilly-operated testing laboratory, as a way to further improve efficacy testing.

Mr. Engel pointed out that hard surface

disinfectants are currently subject to compliance monitoring conducted under EPA Continued on Page 18

Antifriction Breakthrough?

A Du Pont majority subsidiary, Synergistics Technologies Inc., has developed a new antifriction coating that reportedly can extend the life of cutting tools from two to ten times and has a potential market in early targetted areas worth hundreds of millions of dollars.

"The market for Synertech products includes almost anything metal that moves and slides together," Du Pont vice-chair-man W.W. Robinson says. "This broad spectrum of commercial applications for Synertech's technologies includes highspeed metal cutting tools, metal forming tools, automotive gears and power train components, engine parts, military weaponry, pumps, valves and remanufac-tured products.

dustry spends as much as \$90 billion annually to fight wear and corrosion. Synertech will ultimately commercialize its technologies in all of these areas, but for the short term, has targeted metal cutting tools, weaponry, automotive and remanu-

Potential market sizes in these areas could be 10 percent of the coated metal cutting tool area that is predicted to be a \$1.5 billion market by 1991; 20 percent of a \$340 million military weapons coatings market; 5 percent of a \$3 billion coating market potential in the automotive and diesel world market and 30 percent of the \$330 million coating market for the remanufacturing market.

Superfund Money Problem: Congress Seeks a Stopgap

Efforts were underway in Congress stronger and more effective superfund prolate last week to provide short-term gram. funding for the superfund hazardous waste cleanup program, which is running out of money because lawmakers have not completed action on a five-year. reauthorization bill.

The House approved an emergency appro-priation of \$48 million Friday morning for ironmental Protection Agency to use to keep the program functioning at its current level through September. The Senate was expected to approve the measure later in the

The action came after EPA Administrator Lee M. Thomas appealed to Congress Wednesday to provide additional funding before the August recess.

superfund contractors on September 1, and halt work at 76 more waste sites by the end of the month while preparing to phase-down

Congressional delay in reauthorizing suness records and to notify the company of its decision Congressional decision Congression Congressi cleanup activities at more than 200 sites, ered the plan.

"This stopgap interim funding should in no way distract our attention from the need for a fully revised program or relieve pressure from the Congress or the Administration to enact a tougher superfund law," Rep. Florio

During debate on the House floor before approval of the funding proposal, the New Jersey lawmaker warned, "The crisis will be upon us in September and all of our efforts must remain focused on the fact that it is absolutely essential we have a stronger and expanded superfund before Congress finishes its work this year."

He insisted that restrictions be placed on Without more money, Mr. Thomas said he so that it is not "squirelled away" or spent on would have to send termination notices to purposes other than cleaning up toxic waste

Rep. Florio sald EPA hd intended to use part of the temporary emergency funding for superfund previously approved by Congress to transfer agency employees from one building to another, until Congress discov-

"The \$48 million in stopgap funding can

DPT Study Is Initiated **By Senator**

crease in the price of the DPT vaccine over the past four years, Sen. Howard Metzenbaum (D-Ohio) has initiated a General Accounting Office investigation into the price hike by drug companies.

The action follows a charge by a public interest group at a July 25 congressional hearing that DPT manufacturers are making an estimated \$80 million windfall profit from price increases.

Noting that the government pays for half f the 18 million doses of DPT (diptheria. pertussis, tetanus) vaccine sold by drug companies annually, Sen. Metzenbaum questioned why the vaccine cost 11 cents per dose in 1982 and now costs \$11.40.

"It is the taxpayer and the individual consumer who is footing this bill," said Sen. Metzenbaum. "I want to find out the reasons behind this price increase and why this money is not going into research on safer and

Last May, the two remaining US manufacturers of the DPT vaccine, Lederle Laboratories and Connaught Laboratories, boosted the per dose price of the DPT vaccine from \$4.29 to \$11.40 — a 170 percent price hike.

The drug companies said that \$8 of the total price is necessary to cover the costs of lawsuits brought by parents of children who have been killed or brain damaged by the pertussis (whopping cough) vaccine. Other manufacturers have dropped out of the market altogether, raising the specter of short-

In testimony before the House Energy and Commerce health subcommittee, Jeffrey Schwartz, president of Dissatisfied Parents Together, asserted the price hike was unjus-tifled because only a handful of vaccine dam-

Continued on Page 18

NL Industries **Reaches Accord** With Sugar Co.

NL Industries. Inc. reached an agreement last week with Amalgamated Sugar Company under which Amalgamated will be permitted to name a majority of NL's board of directors.

Under the agreement, Amalgamated will name five directors to a new and smaller nine-member board. Nine of NL's current thirteen-member board will resign.

In addition, NL has agreed to delay the spin-off of its lucrative chemicals unit and will not pursue its appeal of a ruling in a Federal Court in New York that the company's "poison pill" anti-merger defense is illegal (CMR, 8/11/86, pg. 9).

The agreement effectively gives control of NL to Dallas, Tex. financier Harold C. Simmons, who has been seeking to acquire NL in a hostile takeover during the past two

have acquired, through NL Investment Cor-poration, their acquisition corporation, over half of NL's 60 million common shares and 20 percent of depositary receipts outstanding

Last week's agreement calls for NL to seek a buyer for the chemicals unit, but specifies that preferred shares issued by the company as part of the spin-off be redeemed for !: at least \$14 per share. The chemical unit would thus have a value

of at least \$840 million. A sale would have to be approved by the NL board. If the unit is not sold, it will be spun off to shareholders.

Mr. Simmons said he supports the concept is of a spin-off of the chemicals unit and expects that it can be effected in a manner that will not result in any significant Federal income tax liability to the company or NL Chemi-

CHEMICAL MARKETING REPORTER





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Formerly part of Allied Chemical Corporation

Toner Case Accepted

International Trade Commission last week voted 6 to 0 to initiate an investigation to determine whether toner imports by Canon Japan and Canon US are in violation of US antitrust laws.

A complaint filed July 15 by Aunyx Corporation alleges that Canon has unlawfully monopolized the US market for ent toners. (See CMR, 7/21/

Under section 337 of the Tariff Act of 1930, ITC could initiate an embargo against the offending Canon toners within

Only Canon and Aunyx manufacture a toner usable in Canon's "NP" copier line. but Canon has more than 99 percent of that market, which Aunyx estimates at

Meanwhile, Aunyx has filed a \$300 mil-

lion antitrust action against Canon in the US District Court in Boston.

Toner, which is made from resins and pigments, is the dry ink for copiers.
"The unanimous vote of the ITC should

send a signal to the Japanese that the US government will not wait until another US ndustry is destroyed," said Aunyx presi-

dent Robert Langone.
Asserting that Canon has "competed unfairly to monopolize the US monocomponent toner market," Mr. Langone said, we intend to use section 337 to obtain an exclusion order and the courts to obtain ppropriate money damages."

Bart S. Fisher, an Aunyx attorney, said Canon personnel have coerced Canon dealers into not using the Auynx product by not delivering the new generation of Canon copier machines to dealers who have purchased Aunyx toners.

ICI Buys Glidden Lines For \$560 Million in Cash

Imperial Chemical Industries, PLC ICI chairman-elect Denys Henderson said reinforced its position as a leading world the acquisition would allow ICI to "accelerpaint company last week by agreeing to acquire from Hanson Industries, the US arm of Hanson Trust, the North American paint, coatings, resins and "Macco" adhesives businesses of Glidden for \$580 million in cash.

The businesses were bought by Hanson earlier this year as a division of SCM Corporation. Hanson Trust says that on completion of the agreement with ICI it will have raised nearly \$810 million through the sale of SCM assets for which it paid approximately \$930

SCM continues as a producer of chemicals, ncluding titanium dioxide, and paper and consumer products. The company operates two US TiO₃ plants, a 109,000-short-ton facility at Baltimore, Md. and an 88,000-ton plant at Ashtabula, Ohio. SCM's total world capacity for the white plants. ity for the white pigment is rated at about 323,000 tons, behind leader E.I. du Pont de Nemours & Co. and British Tioxide, PLC.

ICI says the acquisition makes it the third largest producer in the US coatings and resins industry worth \$9 billion a year. In the year ended June 1986, Glidden had sales of more than \$650 million and pre-tax profits of more than \$60 million, with net assets at book

value of approximately \$220 million. In making the announcement last week,

ate dramatically" its expansion in the \$25 billion world paint market.

He says paints, specialty coatings and resins are adding to ICI's resistance to cyclical downturns in chemicals and "they have a strong track record of profitable growth."

Glidden, with headquarters in Cleveland, Ohio, operates 12 manufacturing units and has 4,500 employees in North America. The company distributes paints and related products to paint contractors through 350 company-owned outlets and its retail consumer paints through both independent dealers and

In the industrial coatings market, the company is a migor factor in can, coil, appliance and powder coatings markets.

Through existing operations, ICI has annual paint sales in group companies and as-sociates of more than \$1.25 billion and manufacturing plants in 26 countries.

The company says its "Dulux" paint brand has 40 percent of the retail market in the UK and over half the color paint sales in value and has increased its retail market share volume from 25 percent to 34 percent

A technical innovation by the company in the retail trade has been development of an almost solid form of emulsion paint and ICI Continued on Page 21

L'Air Liquide Commences Cash Offer for Big Three L'Air Liquide SA, the French indus- and his brother, Albert K. Smith, co-chair-

trial gas firm, commenced a \$1.05 billion tender offer for all 36.3 million outstanding shares of Big Three Industries, following an acquisition agreement between the two companies last Tuesday

The \$29-per-share offer is being carried out by AAL Acquisition Corporation, a unit of

William Boren, vice-chairman of Houstonbased Big Three, said "there will be no consolidation" of Big Three's industrial gas operations and those of Liquid Air Corporation,

ccording to Mr. Boren, the French firm has expressed its Intention to operate Big Three as a separate unit under the same name and personnel. Mr. Boren says Big Three and Liquid Air will continue to compete a pete against each other in the California, Texas, Louisiana and Florida markets.

According to Mr. Boren, Big Three is the fifth-largest industrial gas concern in the US, behind fourth-ranked Liquid Air.

Although Big Three was not on the selling block, there had been speculation over the past few years that the Smith family, which owns about 8 percent of Rig Three's stock. owns about 8 percent of Big Three's stock, was interested in selling.

Harry K. Smith, chairman of Big Three,

and L'Air Liquide "came along and made what was considered a very good offer," Mr. Boren explains. The Smith brothers will both retire their posts at Big Three.

Mr. Boren says other firms had expressed interest in acquiring Big Three, but "no firm offer was made by anybody else" besides L'Air Liquide. It was reported that Union Carbide Corporation had also been a bidder, but Mr. Boren says Carbide never expressed interest in acquiring Big Three.

Big Three's oil field services business has been sagging, along with the market in general, but the company's industrial gas opera-tions are considered strong, especially on the Gulf Coast, where the firm's gas pipelines give it an advantage over competitors

Big Three, which reported a 15 pecent drop in profits in the second quarter, said results in the first half improved slightly to \$24.4 million, or 67 cents a share, as compared with \$23.9 million, or 62 cents a share in the comparable period last year.

L'Air Liquide said last week that its offer is subject to a minimum of 24.5 million shares of Big Three being tendered and not with-drawn prior to the September 11 expiration date. Big Three's board approved the offer and is recommending that Big Three stockholders accept it.

Potash Makers See No Rebound in '87

Potash producers, coming off a fertil- IMC, a company official says large inventoizer year in which both North American and export shipments of product fell sharply, see little hope for a turnaround in domestic sales in the 1986-1987 fertilizer year, although exports may pick up enough to offset any further decreases in domestic demand.

Potash production by Canadian and US producers in the fertilizer year ending this past June 30 fell 12.4 percent to 8.4 million short tons, K₂O basis. North American disappearance fell 6.5 percent on the year to 8.8 million tons, K2O basis, while exports slipped 9.5 percent in 1985-1986 to 2.8 million tons. according to figures provided by Potash & Phosphate Institute.

One bright spot has been a 12 percent decline in inventories during the year, but one producer tempers that statistic by pointing out that stocks did not begin to fall until April at the tail end of the planting season.

Producers have taken extensive downtime his Summer in an attempt to further whittle down inventories. For example, the two largest Canadian producers, Potash Corporation of Saskatchewan and International Minerals & Chemical Corporation, have taken long turnarounds this Summer. PCS closed all its mines from mid-June through the end of July before resuming operations on August 1. An ongoing strike at PCS's Lanigan, Sask. mine, however has forced PCS to operate there at sharply reduced levels. At

ries have prompted the company to signifi-cantly lengthen its normal Summer turnaround at Esterhazy, Sask. He did not disclose when the mine would reopen.

Even while stocks fall, domestic demand



David A. Needham, who has been named vice-president for marketing services and director of marketing for resins by Hercules Inc. He will assume responsibility for sales and marketing of organic resins as well as retaining a number of other marketing functions that he already per-forms

Ocean Incineration Backed By Congressional Office

on ocean-going vessels - could be an attractive, though not essential, interim option for managing certain liquid wastes, according to a report released Friday by the Congressional Office of Technology Assessment.

Several waste treatment methods, such as ocean incineration, will be needed to bridge the gap between hazardous waste disposal practices of the past which are being abandoned such as landfilling, and preferred practices of the future, such as waste reduction, whose capacity is only now developing, according to OTA.

The report, prepared at the request of the Senate Commerce Committee and several House committees, notes that time will be required to implement these preferred practices and they will not be applicable to all

Last May, the Federal government re-

ardous wastes in incinerators mounted request to burn toxic waste aborad an incinerator ship off the Atlantic Coast.

Lawrence Jensen, Environmental Protec tion Agency's assistant administrator for wation Agency's assistant administrator for water, said the agency backed off its once-enthusiastic support for the experimental technology partly because of public concerns raised by its tentative approval last December of a test mission 155 miles off the coast of Ocean City, Md.

My Jorgen said FPA would not license any

Mr. Jensen said EPA would not license any research burns for at least one year while the agency develops comprehensive ocean incineration regulations.

OTA says ocean incineration is likely to have only a limited effect on incentives to shift preferred management practices, in part because these practices are expected to be applied to nonincinerable wastes for the

It says to ensure that ocean incineration is upplanted by better technologies as they de-Continued on Page 25

Polymer Institute Is Set To Market R&D to Industry

ts first corporate subsidiary, Polymer Cechnologies, Inc. (PTI), to do research in polymers, some of it under contract to

Dr. Nicholas J. DeGrazia will act as president and chief executive officer of PTI, while the university's vice-president for finance and its treasurer. Creation of the company will be completed by fall with PTI becoming a wholly owned subsidiary of the university.

PTI will build from the Polymer Institute, research center founded in 1968 within the University's College of Engineering and Science. The founder and director of the Polymer Institute, Dr. Kurt C. Frisch, will serve as vice-president and director of research in the new firm. Dr. Frisch's specialty is

Since its founding in 1968, the Polymer Institute has served more than 100 contractual clients including Dow Chemical Corpo-

August 18, 1986

The University of Detroit will operate is first corporate subsidiary, Polymer echnologies, Inc. (PTI), to do research polymers, some of it under contract to ndustry.

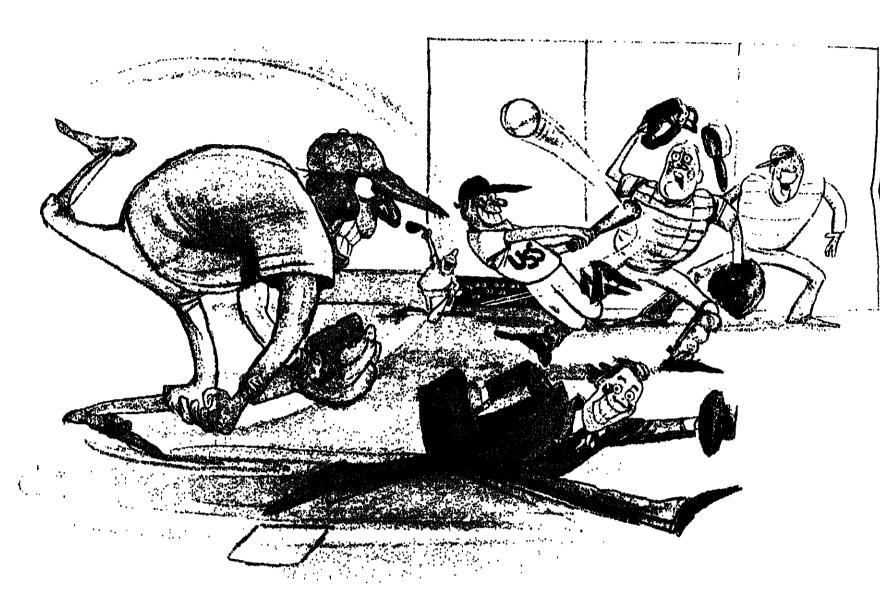
ration, Quaker Oats Company, Budd Company, Ford Motor Company, General Motors Corporation, and Mitsubishi Chemical Industries. Dutch State Mines (DSM), the U.S. Army and Navy, IBM Corp., Control Data-Corp., and Johnson & Johnson Inc. are among its 20 current clients.

Marketing the company to new clients and

among Dr. DeGrazia's responsibilities as president of PTI. "What is unique about our marketing posi-tion," says Dr. DeGrazia, "is we have been in somewhat of a reactive mode for the last five years. Kurt Frisch, who is extremely well known in the scientific and industrial communities, has brought a lot of customers through the door and many of these companies have requested further research activi-

One area that PTI will continue to pursue is humanitarian research for the health field. It is expected that in the near future PTI will assist the government of India in the Continued on Page 16

Many people depend on your company and your products. But who do you depend on?



de-pend (di-pend') Intr. v.i.1. To rely, as for support, help, etc. 2. To be assured; to place

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News Capsules

Denka Starts Expansion

Denka Chemical Corporation has started work on a 20-million-pound expansion of its Houston, Tex., maleic anhydride plant. The project is scheduled for completion in the first quarter of next year and will lift Denka's maleic anhy-dride capacity to 65 million pounds annually. The increased capacity is necessary to meet projected market growth, antici-pated to be in the 4 to 6 percent per year

Du Pont Cuts Costs

E.I. du Pont de Nemours & Co. says has cut production costs by 35 percent at one of its major plants through the use o statistical techniques by shop floor workers as a substitute for the tradition inspection method of quality control. Du Pont says effective use of statistical technique can increase product yield to nearly 100

Carbide Additive

Union Carbide Corporation says it has developed "Ucarsil" FR additives for use in formulating functional plastic building naterials with improved fire safety prop erties. Initial commercialization of prod ucts formulated with the additives will be in electrical wire and cable insulation and acketing, and in electrical conduit for use in shipboard, military, power plant, subway and high-rise building applications.

Chevron Opposes Measure

Chevron Corporation has come out against Proposition 65, which will be on he ballot in California this November The company says the measure would make it "extremely difficult" for farms or businesses to operate with the routine use of pesticides, gasoline, diesel fuel and other chemicals considered safe for shold use. Chevron says it is urging California voters to read the proposition carefully before voting.

O-C Specialties Unit Sold

Owens-Corning Fiberglas Corporation has reached agreement for the sale of its CHR Industries subsidiary to Bundy Corporation. CHR, a specialty pressure-sensitive tapes, silicone rubber sheet and "Teflon" coated fabrics firm based in New Haven, Conn., "will add approxi-mately \$25 million in sales to Bundy's \$70 million performance plastics group, says Bundy president William E. Eckhardt.

Pantasote Deal Complete

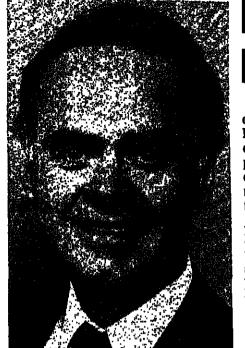
Pantasote, Inc. has completed the previously-announced sale of its Hickory, N.C. polyvinyl chloride film facility to Hickory Vinyl Corporation. The Hickory facility, which had sales of approximately \$7 million last year, will continue to supply a portion of Pantasote's film requirements for the company's Butler, N.J. printing/laminating division. Pantasote had 1985 sales of about \$133 million.

^{Vinyl}s Venture Set

Imperial Chemical Industries PLC and EniChem are completing plans for their vinyls joint venture, to be known as European Vinyls Corporation, to begin trading on October 1, 1986. EVC International SA/NV, which will coordinate the venture's business worldwide, will be established in Brussels in order to prepare for start-up of the operating companies.

Nitrogen Plant Starts

Air Products & Chemicals Inc. has be gun supplying nitrogen to Rohr Indus-tries' Riverside, Calif. plant from a new vacuum swing adsorption (VSA) facility. he nitrogen is used as an inert pressuriz ing atmosphere for curing composite air-craft and spacecraft parts in autoclaves.



Celanese Corp. **Sets Up Unit For Specialties**

Celanese Corporation last week said it has formed a new unit, Celanese Advanced Technology Company, and appointed James J. Bigham as its presi-

"This move," says CEO John D. Macomber, "is an important step in our growth and diversification strategy." He adds that it will "further strengthen the tie between our research and development activities and our growth businesses, which will play an increasingly important role in our future."
With headquarters in Chatham, N.J., the

technology group employs 650 persons in administrative, research and pilot production facilities at Charlotte, N.C., Corpus Christi, Tex., and Summit, N.J., with a production unit at Rock Hill, S.C.

The focus will primarily be on advanced materials such as "Vectra" thermoplastic and a polybenzimidazole specialty fiber of which the claimed properties are high temperature and chemical resistance.

Mr. Bigham is a vice-president of Celanese Corporation and formerly president of

Department Plans to Expand **Fuel Ethanol**

Department of Agriculture last week expanded its temporary program to encourage the use of grain in the production of fuel ethanol by including drymilling and wet-milling grain products and grain-derived syrups as eligible

The goal of the program, which ends September 30, is to maintain the demand for grain by bridging the gap between Spring. grain prices and lower prices expected this Fall as a result of reduced price support levels mandated by the new farm program.

The decision followed a comment period and an informal hearing held to determine whether the temporary program to encourage the use of grain for fuel ethanol should nclude non-grain-based ethanol producers,

who use a variety of feedstocks. Daniel G. Amstutz, under secretary of agriculture, says it was determined that while a reduction of grain-based ethanol feedstocks costs through September would preserve a market for grain, a similar situation does not exist with respect to non-grain ethanol feedstocks.

Pickens Recommends Hemispheric Market

The US should seek energy security by need to permit the maximum play of free encouraging the formation of a Western market forces in the production and alloca-Hemisphere Energy Alliance or an energy common market, two panelists proposed in a symposium on energy mergers and energy policy at the national meeting of the American Bar Association in New York last week.

T. Boone Pickens, chairman of Mesa Petroleum Corporation, and the leading advocate of oil industry restructuring, whether by forced merger or management policy, suggested that an Energy Alliance linking the US with Canada, Venzuela, Colombia Ecuador and other oil and gas-producing nations would meet the national security objective once believed attainable through US

Theodor Garrish, assistant US secretary of energy, noted that the producing and consuming nations in the Western Hemisphere, are already verging on a common market for energy. By the end of the decade, Mr. Garrish noted, there will be a free flow of oil and gas between Canada and the US, as the last of Canadian controls will have been phased out.

Mr. Garrish's remarks, like those of Mr. Pickens and Charles Trabandt, commissioner for the Federal Energy Regulatory Commission, laid great emphasis on the detrimental effects of regulation and the

tion of energy resources.

The panelists also agreed that the benefits flowing from mega-mergers and restructur-ing in the oil and gas industry far exceeded the claimed ill effects. The fact that the oil significantly exceeds their discovery of new reserves creates a need for restructuring and also supports the idea of a Western Hemi-

The increased Federal controls over mergers being sought by some of the larger oil companies that have become targets of Mesa and other small companies were rejected by the panelists. Mr. Garrish noted that it took five years to dismantle the crippling price controls and allocation of oil implemented in

"It is the politically powerful losers who do the lobbying, and it is hard to resist their

Mr. Pickens had similarly hard words for Federal regulation, but there was implicit disagreement about Mr. Pickens' plan to form a massive organization of stockholders' to press for shareholder rights. A panelist said that a lobbying organization of 47 million stockholders would not necessarily have

Continued on Page 29

Methane From Land Fill

etary gas separation technology developed by Air Products & Chemicals, Inc., has been incorporated in a recently completed landfill gas recovery facility in Greensboro, N.C.

This system, which includes equipment supply and technical services, is a pressure-swing adsorption (PSA) process that separates carbon dioxide and methane, producing a gaseous stream of 99 percent pure methane at high recovery levels. The system operates at considerably lower pressures than competing technologies, and has been automated for semi-attended operation.

In the first commercial application of the system, it will purify gas recovered by GSF Energy Inc.'s new facility at the City of Greensboro's White Street landfill. to 3 million standard cubic feet per day of the raw gas generated by the natural decay of landfill material. GSF Energy Inc., an Air Products subsidiary, will operate the recovery facility and sell the high-purity methane as pipeline gas to Piedmont

In the gas processing facility at Greensboro, raw feed gas passes through a proprietary pretreatment system to remove trace impurities. The pretreated gas then passes through a bed of adsorbent to remove carbon dixide, producing a high-purity methane product stream. The carbon dioxide is removed from the adsorbent by lowering the pressure and can also be col-

Household Cleanser Sales To Hit \$9.9 Billion This Year

US sales of household cleaning products will show moderate but steady growth through 1986 and 1987 with most activity occurring in the large soaps and detergent sector, according to a new study by Charles H. Kline, Fairfield, N.J., market analyst.

The industry will reach \$9.9 billion in 1986, by 6.8 percent from \$9.3 billion in 1985,

This growth will be influenced by a number of factors as marketers attempt to gain share in this highly competitive industry. Kline says these include the following: industry consolidation through acquisitions and divestitures, increasing efforts to extend successful brands, heightened consumer mographics and buying patterns among consumers of household cleansing products.

Several acaquisitions took effect in 1985 which dramatially increased sales of five companies and will alter the competitive structure of several product categories in 1986 and beyond.

Greyhound increased its sales of household cleansing products by over 1000 percent with the acquisition of Purex's Consumer Prod-ucts Division which it has merged with Ar-

mour-Dial to form the Dial Corporation. The acquisition product categories as well as a large, growing private-label business.

Similarly, the acquisition of Texize increased Dow Chemical's sales of household cleansing products by 871 per cent, strength-ened its position in the bathroom cleaner category and expanded its participation in the growing all-purpose and glass cleaner seg-

Reckitt & Colman's purchase of Airwick, Sare Lee's purchase of selected assets of Nicholas Kiwi and Block Drug's acquisition of the X-14 brand of mildew remover from

White Laboratories. Marketers are more likely to extend their strongest brands than to introduce new ones. a strategy that stimulates sales and rapid consumer acceptance while maximizing the effectiveness of promotional expenditures, according to the study. Economics Laboratousing this strategy.

This tactic has also worked well for Church & Dwight ("Arm & Hammer"), Kline says: However, it represents a new approach for

the largest marketer in this industry, Procter & Gamble. The company, once unwilling to exploit such popular brands as "Tide," introduced a flurry of extensions in 1985 and 1986 and appears likely to continue. For example, at least three distinct products bear the "Tide" name in 1986 and several new liquid detergents bearing the "Cheer" and "Bold" names have been announced...

Increasing demand for convenient house-

Continued on Page 17

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OILS, FATS & WAXES

Palm Oil Market Depreciates; Production Increases Again

tors that could contribute to a significant

firming trend in the near future for the veg-

etable oils market in general, and for palm

Malaysia announced early last week that it

intended to lower the export duty on cruce palm oil for the month of August. The duty or

refined oil will not be lowered at this time.

is unclear if the reduced tax will last beyond

PRICES TRENDLINES

WEEK ENDING AUGUST 15, 1986

Cottonseed, 41% bulk, Memphia, \$15 per ion Soybean, 44% bulk, Decatur \$7 per ton

Coconut oil, NY, 44c. per ib. Corn oil, Midwest, 42c. per ib. Cottonssed oil, Valley, 1c. per ib. Lard, Ioase, bulk tanks, Chicago divd., 4c. per b.

The Oils, Fats & Waxes Index reflects

the prices of 11 representative materials

in this sector and the quantity of each

Chemical Prices Start on Page 32

August. The Malaysian government is ente

ing a joint venture with a company or compa

nies for the refining of crude palm oil, and this is considered part of their reason for encouraging the release onto the market of

large amounts of crude palm, a source says

COCONUT OIL - Pricing on coconut oil

sagging due to a lack of demand and about

dant stocks. The price is thought by some b

be near the lowest levels that it will reach

the low prices reached in the forward market. Although the spot market had been expected to fall, unusually low pricing was seen on positions as far ahead as 6 to 8 months.

Now, traders are expecting the forward market to fall to spot levels, and they believe that the spot prices will not fall much farmer.

Malaysia's recent reduction in crude pain

oil export levies is being closely watched

people in the coconut oil industry, as an reports that Malaysia is considering reductions the 10 meters.

ing the 10 percent export tax on paim kend oil, a major competitor of coconut oil. More of this bind

of this kind can be expected to depress co

conut oil prices, sources say.

COTTONSEED OIL — The market is

this oil has been very slow as buyers at waiting for the crop currently being he vested to bring prices down further than the

Buying has been very weak lately, with the

the forward buying taking place at very or prices. Most of the trading being done or rently is for November through March por

tions, selling for about 14c. per pound, indi

try sources say.

Helping to depress the market is the est start-up of oil mills in the Mississippi delicated the Texas crop, currently being harvested coastal areas, is said to be lower in yield at coastal areas, is said to be lower in yield at coastal areas, is said to be lower in yield at coastal areas.

coastal areas, is said to be lower in yiesti quality than last year's crop. This harvesti which is expected to go on through November, is expected to fuel the early start of several other mills. No significant untures several other mills. No significant untures demand is expected until near the end of its year, when it is hoped that prices and carries and carries

Continued on Page 16

tet seeing almost no activity, and

Many traders were surprised last week by

. 85.55

. 85.82

oil in particular.

CHANGES/UP

CHANGES/DOWN

Peanut, 60% bulk, SE, \$5 per ton Soybean oll, Decatur, 1c. per lb.

OILS, FATS INDEX

produced in 1985.

Aug. 16, 1986

Aug. 15, 1985

VEGETABLE OILS

ndustry sources say.

have been.

Aug. 8, 1986

Palm oil prices have fallen consider- or more. Most industry observers see no fac. ably over the past couple of weeks due to oversupply, weak export movement, and low prices on competing oils. A drop-off in orders from India in recent weeks has been especially harmful to the world palm oil market, sources say.

The oversupply situation facing the palm oil industry throughout the year is continuing. Malaysian Government palm oil production estimates put the July figure at 392,000 tons; August estimates stand at 470,000 tons, and and September's production is forecast at 560,000 to 575,000 tons. These estimates trace the continuing trend of monthly Malaysian production increases of about 20

India's recent absence from world palm oil trade has been sorely felt in the market, sources say. India, usually Malaysia's largest customer, has bought less oil in recent weeks than had been expected. It is thought that with world stocks as high as they are, the Indians feel safe in waiting for the price to drop further before completing their buying for the year. It is hoped that when they do come back into the market, they will help bring prices back up.

INDONESIA SELLING LESS

On the other side of the coin, Indonesia has been selling considerably less palm oil than had been anticipated. Ballpark estimates by one industry analyst see Indonesia as having about 500,000 more tons to sell on the world market through December. If and when these quantities go into the market, palm oil prices can be expected to fall further, sources say.

Low pricing on competing oils has also helped to dampen the palm oil market. In Europe, rapeseed and fish oils have been providing stiff competition for palm oil, while the decline in coconut oil prices on both the spot and forward markets has been a problem for palm oil worldwide.

US use and trade in palm oil has been continued steady, industry sources say. US imports from October through June of this year are 217,623 metric tons (MT), compared to the previous year's figure of 127,152 MT. US stocks at the beginning of July stood at 35,756 tons, down from the June 1 figure of 40,393

The outlook for the future, though mixed, seems to indicate a continuation of depressed prices. Although India's buying is expected to increase soon, that must be weighed against the possibility of large amounts of Indonesian palm oil entering the market.

Even if this were not to materialize, it is onsidered certain that, barring extreme weather conditions, Malaysia's production will continue to increase over the next year

FRIDAY SPOT PRICES

MARKET CLOSE AUGUST 15, 1986 CRUDE VEGETABLE OILS

OILMEALS Cottonsed, 14% bulk, Memphis.......ton \$115 Linsed, extracted, 34% bulk, Pargo....ton \$100 Peanut, 50% bulk, \$E, Alebama........ton \$185 Soybean, unrest, 44% bulk, Decetur.....ton \$181

FATS & GREASES Grease, white, choice, tanks, divd., NY..., ib. Grease, yellow maximum 10%, ffs tanks... ib. Lard, loose, bulk tanks, divd., Chlogod... ib. Tallow, inedible, tanks, divd., divd., NY..., ib. Tallow, inedible, bich., tanks, divd., NY..., ib. **Chemical Finance**

Asarco Sells Additional 450,000 Shares

Asarco Incorporated, New York, has closed the sale of an additional 450,000 shares of \$2.25 depositary convertible exchangeable preferred stock and an additional 375.000 common stock purchase warrants pursuant to an option granted to First Boston Corporaation to buy additional shares and warrants to cover over-allotments.

Avery Signs Final Pact For Uniroyal Chemical

Avery Incorporated has signed a final agreement for the previously announced acquisition of Uniroyal Inc.'s Uniroyal Chemical Company for approximately \$720 million in cash. Triangle Industries, Inc., a major shareholder of Avery, expects to make an equity investment of \$75 million in Avery as part of the financing. Avery Inc. is not connected with Avery International, the world's largest self-adhesive label manufac-

China, Morocco Boosting Exports of Barytes

Exports of barytes from China and Morocco are growing fast, while exports from once-important source countries — Chile and Peru for example — are continuing to fall, according to Roskill Information Services Ltd., London-based market research organization. China is now the world's largest producer, Roskill stated. Demand for barytes has declined with the reduction in oil drilling activity, Roskill noted, with scant chances for re-attaining earlier highs until the 1990's.

Millipore Acquires West Coast Software Maker

Millipore Corporation, a leader in the field of chemical separation and purification. has acquired Dynamic Solutions Corproation, a Ventura, Calif. based developer of software for analytical instrument data systems used by laboratories.

Pharmacia Boosts Net Income 16 Percent

Pharmacia AB, Uppsala, Sweden, raised its income after net financial Items to \$426 million in the first six months of 1986 from \$368.8 million a year ago, as sales increased to \$1.7687 billion from \$1.7038 billion.

Union Carbide Hikes Second Quarter Net Income

Union Carbide Corporation has revised upward its second-quarter net income to \$388 million, reflecting a \$333 million extraordinary gain, principally from divesting its battery products business. Income a year ago totaled \$101 million.

Zemex Files 600,000 Shares of Common Stock

Zemex Corporation, New York, a diversified natural resource company mining and processing feldspar, kaolin, industrial sand, inica and tin ore, and a manufacturer of metal powders, has filed a registration statement with SEC for a proposed public offering of 600,000 shares of common stock through Tucker, Anthony & R.L. Day Inc.

Grace Redeeming 12% Percent Notes due 1990

W.R. Grace & Co.'s board of directors has approved the redemption of Grace's 12% percent notes due 1990, on September 15, at a price equal to their principal amount plus accrued interest. The notes will be refinanced with short-term borrowings at lower

Prudential-Bache Lowers Betz Income Projection

Prudential-Bache Securities has lowered its earnings projections for Betz Laboratories, Inc., from \$2.48 per share this year to \$2.40 and from \$2.68 in 1978 to \$2.60, reflecting a more pessimistic outlook for industrial production in the second half. Stuart M. Pulvirent, Prudential-Bache's chemical analyst, recommends that the stock be held with the objective of selling in the mid-40's. It was recently quoted at 38 %.

Asarco Selis Additional 450,000 Shares

Asarco Incorporated, New York, has closed the sale of an additional 450,000 shares of \$2.25 depositary convertible exchangeable preferred stock and an additional 375,000 common stock purchase warrants pursuant to an option granted to First Boston Corporation to buy additional shares and warrants to cover over-allotments.

Allied-Signal Acquiring Endevco Division

Allied-Signal Inc. has signed a definitive agreement to acquire the Endevco Division of Becton Dickinson & Co. for an undisclosed price. Endevco, headquartered in San Juan Capistrano, Calif., produces sensors and transducers for both government and commercial use

Amoco to Issue \$250 Million in Notes

Amoco Company, a wholly owned subsidiary of Amoco Corporation, Chicago, will issue an aggregate principal amount of \$250 million in notes to be sold by Morgan Stanley & Co. and priced to yield 7.993 percent. Proceeds will be used to repay outstanding debt and for other corporate and priced to yield 7.993 percent. other corporate purposes. The notes, guaranteed by the parent company, are not re-deemable before August 15, 1993.

^{Uppen}heimer Recommends Ausimont Compo, Chemec

Oppenheimer Inc.'s specialty chemical analyst, Charles J. Rose, is recommo purchase of the shares of Ausimont Compo Corporation, a specialty chemical company with a projected earnings growth rate of 25 percent per year. Ausimont Compo is the only foreign company on Mr. Rose's recommended list. Domestically, he is recommending Safety-Risen Corporation. Safety-Kleen Corporation and Chemed Corporation and telling his clients to avoid Naico Chemical Company and Lubrizol Corporation.

Morgan Olmstead Puts Pfizer on Recommended List

Morgan Olmstead Kennedy & Gardner, Los Angeles based investment concern, has moved up its rating on Pfizer Inc. from "hold/switch" to "buy," citing an improvement in near-term prospects and a continued strong long-term outlook. The company's earnings are projected at \$3.95 per share this year and \$4.50 in 1967, as against \$3.44 last year.

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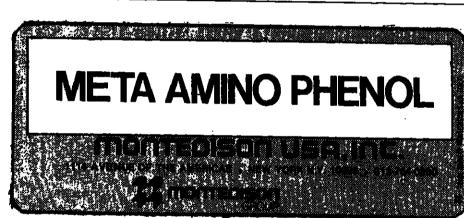
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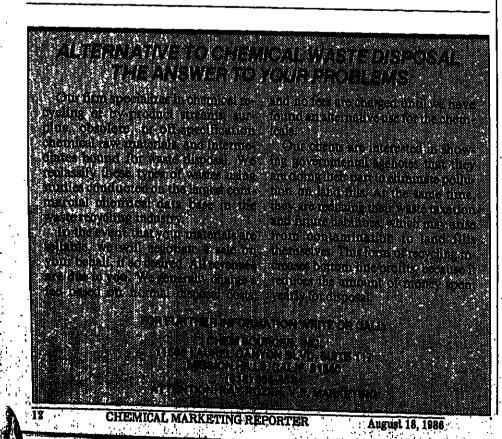
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1986 برار Angust 18، 1986







AROMATIC ORGANICS

Benzene Price Increases As Crude Oil, Gasoline Rise

gasoline values, benzene producers have posted 5-cent-per-gallon contract price increases. The upward adjustment was initiated by Shell Chemical on August 8. one week after a 5-cent-per-gallon industrywide lowering of prices.

The price returned to 75 cents per gallon for Shell on August 16, based on a seven-day notification period. The price becomes effective for Exxon Chemical Americas, which followed Shell's move, on August 18.

Standard Oli of Ohio's price moved to 75

cents per gallon August 15, as the company's contracts are said not to a require seven-day notification period. Other producers reportedly are moving in kind.

The production accord reached by the Organization of Petroleum Exporting Countries "has lent some support to the market," says one supplier, and a trader observes that, although there is some skepticism over the long-term success of OPEC's move, buyers have responded to the situation.

"There has been a turning away from destocking philosophy to one of loading up on feedstocks ... (with buyers) grabbing what they think is cheap material as a hedge against an upward trend," he says.

An analyst agrees with this assessment although he says the upward trend is played out because he expects stability for crude oil and gasoline pricing at the higher levels.
DECLINE IN STOCKS

Benzene inventory levels declined 35.63 million gallons during the second quarter, form 159.878 million gallons on March 31 to 124.248 million gallons on June 30, according to National Petroleum Refiners Association.

The June 30 level "is considered a midrange type of number ... (based on which) nobody should be forced to buy or sell," says an analyst. He adds that the level has probably edged slightly further downward since

The downward trend in inventory levels is attributed primarily to a decline in production. Production during the second quarter was 325.778 million gailons, 34.057 million gailons lower than the first quarter's 359.838 million-gallon-level, according to NPRA.

Production of benzene through hydrodealkylation of telepage (health feel but of telepage (health feel but of telepage (health feel but of telepage)).

drodealkylation of toluene "really fell out of favor in the second quarter," notes the analyst, as strong octane demand held toluene pricing at a high level.

HDA has been "very minimal" since the early part of the year, agrees a producer, and

the few units in operation are said to involve captive requirements. "Nobody is out buying toluene on the merchant market for HDA,"

Benzene supplies have been augmented by

the resumption of basic aromatics production at Amerada Hess Corporation's 2 Croix, Virgin Islands facility last med Hess is reported to have sold at least two parcels of benzene the first week of Augud, one of which went to a Gulf Coast use.

PRICES TRENDLINES

"They're cranking out 2,000 barrels a day of

WEEK ENDING AUGUST 15, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX

The Aromatic Organics index reflects the prices of 14 representative materials in this sector and the quantity of each produced in 1985.

p	
Aug. 15, 1986	167.84
Aug. 8, 1986	
July 17, 1986	
Aug. 16, 1985	
Chemical Prices Star	t on Page 32

100 percent spot market sales," an observer says. The facility had been down since Febru

Sohio is in the midst of resuming benzere production at its Alliance, La. plant, which underwent a turnaround from June 27 to AP gust 1. The turnaround had been scheduled later in the year, but was moved up because "some parts had to be fixed right away," according to a company spokesman

CYCLOHEXANE - Reflecting the 5cper-gallon benzene contract increase, cyclo hexane pricing rebounded 4.1225c. per gallo in accordance with the industrywide pricing formula, Prices range from Phillips Chemical Company's 89.5225c.-per-gallon price to Texaco Chemical Company's 88.5225c.-per-gallon price to Texaco Chemical Company's 88.5225c.

plant, said to be operating at a high rate since June, "fills the void" created recently by the tomporary shutdown of E.I. du Pont & Nemours & Co.'s 50-million-gallon-per-year

Corpus Christi, Tex. plant.
It is felt fairly likely that producers make an effort to raise pricing by la per gallon for the fourth quarter. Produces to Phillips' price level have eliminated 2c, ye gallon of the 4c, per gallon temporary voluntary allowance granted last year under pres

AROMATIC ORGANIC IMPORTS: JUNE

CENSUS BUREAU REPORTS ON THE TOP 24 AROMATICS.

·	j	UNE		MY
Alledetanata	QUANTITY	S VALUE .	QUANTITY	\$ VALU
Alkylphenois	72,400	136,459	194,857	643,844
Anilineib.	6,614	7,605		أعم غيداني
Benzenegal. Benzolo acidib.	20,087,228	14.214.405	11,793,284	7,640,70
Contract acid	98,422	53,319	42,441	
Codicar	2,265,728	238,242	6,087,616	1,000,01
	1.876,103	1,084,062	53,806	20,11
Viesois, 0-, m-, p	802,053	191,934	75,089	74,50
	48,207,829	5,523,823	29,147,941	. 3,419,22
Cyclohexanegal.		3.244	1,035	1.12
Cyclohexanone gal. Cyclohexanone gal. Fumaric sold bb. Malejo anhydride bb. Melamine bb. Naphthol A8 & derivatives bb. Phenol	2,324,854	724,192	1,056	1.01
rumano sold ib.	120.699	159.797	198,216	70,07
maiolo annydrido	548,201	232.590	445,960	214,47
netamine	1,309,547	464.029	1,525,237	
Naphthol AS & derivatives	203,279	223,354	496,713	97.9
Phenol	503,582	81,546	1,097,674	254,50
Phenol	305,861	64,700	984,285	180'5
PICOINGS			65,065i	
		1,549,650		
Toluene	16,380,417	21,904,756	12,230,776	7.221/22
Vat blee 1	723.721	014.651	601,602	n 1,107); z
Xylene	4.150,757	2,924,641	4.734.013	9,100,55
C-Xylene	180,141	78,140	2,897,859	433.75
p-Xylene.	3,163,774	4.158,769	1 253,206	. 1,815.52
Tokuene gai. Vat bise 1 lb. Xylene gai. O-Xylene gai. P-Xylene gai. Xylene gai.	119,424	95,613	. 15 i 966	pl J
"Includes which of adultant tables a line a			7 4L 4L 1. W. A. A.	100

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AROMATICS

sure from the nylon industry.

Contract terms permit the elimination of ic. per gallon of the TVA each quarter. This quarter, Phillips did not raise its price, but Texaco and other producers narrowed the industry's pricing spread by moving up 1c.

DYES - Food & Drug Administration says it is permanently listing Red 19 and Orange 17 as safe for use in externally applied drugs and cosmetics. The decision is based on studies indicating that the materials pose an insignificant cancer risk to con-

METHYLSTYRENE — American Hoechst Corporation says it is in the process of starting up its 35-million-pound-per-year para-methylstyrene (PMS) plant in Baton Rouge, La. In April, the company said it intended to have the plant operating by mid-

The facility, a joint venture with Mobil Chemical Company, was shut last year, and Mobil decided to leave the business this year. "Mobil did a very good job of creating a market, and American Hoechst will continue to supply it," says a Hoechst spokesman. It is said that the primary markets for PMS are the adhesives and coatings industries. Mobil has been marketing material from inventory

MDI — Mobay Chemical Corporation, Rubi-con Chemicals, Inc. and Dow Chemical USA say they are raising diphenylmethane di-isocyanate pricing by 4c. per pound, effective September 1.

The change will involve the removal of a 4c.-per-pound TVA granted by producers last within the industry following an 8c.-perpound industrywide price increase on April 1. BASF Wyandotte Corporation, the other domestic producer, says it is studying the situ-

Producers say the market is tight, but ac knowledge that it was tight when the 4c. per pound TVA was granted as well. "We felt that our customer base had accepted" the full extent of the 8c. per pound increase ... (and were) confused by the TVA" which was initially granted by Dow, one producer com-

Dow says that there was "less than total broad-based support" for the 8c. per pound increase at the time the TVA was granted, and that "It appeared that we were not going to get all of the 8c. in the industry." The TVA 'served to do a lot to stabilize the increase,'

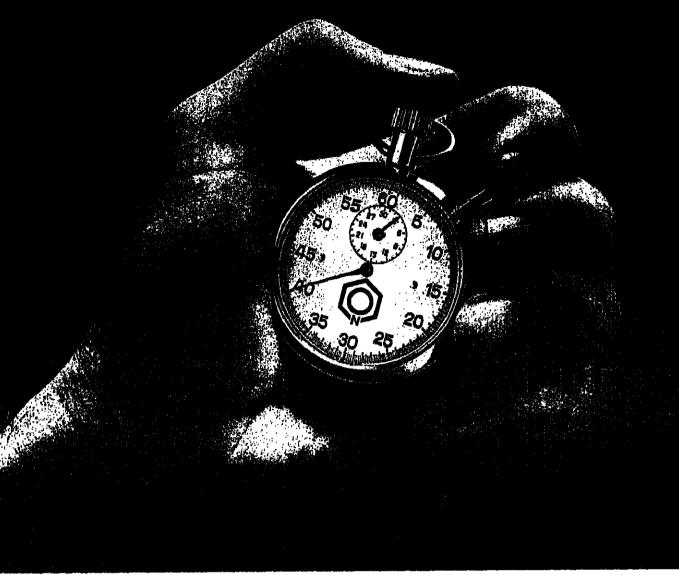
TOLUENE — Spot toluene is quoted be tween 63c. and 65c. per gallon, 5c. per gallon higher than the previous week. Much of the movement is attributed by industry sources to the movement of the sources to the movement of the sources.

to this month's surging gasoline values.

An industry source says that no-load premium and middle-grade, unleaded gasoline have been selling well at the pump in recent months, and that these trends bode well for continued strong continued stron continued strong octane enhancer demand.

Another source says that lower prices at the pump this year should have a continuing effect on overall gasoline consumption as the incentive to commute via car pools de-creases, and larger-sized cars regain some





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OILS, FATS & WAXES

Continued from 'Page 10

omer's stocks will be low enough to draw buyers back into the market.

SUNFLOWERSEED OIL - This oil is quoted at 151/2 and 171/4 c. per pound, crude, f.o.b. Minneapolis. Trading has been extremely slow both in terms of export move-

ment and domestic selling, sources say. Export demand is described as very poor, due primarily to a lag in orders from Mexico, which has been a good buyer this year up to a month or so ago, industry sources say. Argentina's sunflowerseed oil is said to be selling at a \$40 per ton discount to the US product, making it difficult for US producers

to compete on the world market. Latest figures on domestic supplies show US stocks at the beginning of July at 24,011 tons. The figure for the beginning of June is 21,934 tons, according to Department of

Domestic trading is slow, but it is hoped

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that bearish customers who have been waiting for the market to fall further will need to re-enter the market soon to keep their stocks up. Also, US producers are waiting for the usually strong buying habits of the Mexican to return as their supplies begin to fall as

FATS & GREASES

TALLOW — This market has been rather low, suffering from competition from palm stearine and coconut oil. Another factor in lower prices is the lack of any "worthwhile export trade," according to an industry source. The same factors are said to be keeping white grease down.

Exports of tallow for the first half of this year far exceed those of last year. Mexico, for instance, the largest importer of US edi-ble tallow, increased its imports 128 percent in the period January through June 1986 over the same period a year ago. Trinidad's imports are up 327 percent, and Jamaica's are up 250 percent.

While the export demand has been de-scribed as poor, one industry analyst sees a large amount of nearby demand due to foreign countries trying to use the Commodities Credit Corporation credits before they ex-pire, he says. The source sees forward buying abroad as slow.

The grease market is said to be benefitting from the drought in the Southeast. Oilseeds that are generally used in chickenfeed layer not been faring well; therefore, chicken farmers have been adding more grease to their chickens' feed to help "fatten them up," according to an industry source.

Polymer Institute

Continued from Page 7

development of an artificial foot and the development of new processing techniques to allow its mass production.

The corporation also anticipates increasing its work for automotive manufacturers and suppliers who associate Dr. Frisch with the search for sturdy, light weight plastic materials for use in cars and trucks. He developed the comfortable, durable and low-cost substitute for foam rubber that has been used for the past 25 years in car seats, armrests and dashboards. The polyurethane bumpers, fenders and side panels in use today also are an outgrowth of Dr. Frisch's work and that of

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Household Cleanser Sales

Marketers are likely to adapt promotion

and to seek new distribution outlets in re-

sponse to shifting consumer profiles and buy-

ing patterns. Promotions such as instant redeemable coupons, sampling, and mail order coupons will become more important as con-sumers have less time to clip coupons or

Finally, manufacturers will increasingly

seek such alternatives to traditional retail

outlets as mass merchandisers, warehouse

stores or buying clubs as these stores grow in

popularity among value-conscious con-

Although overall sales growth for house-hold cleansing products will continue to be

moderate, marketers who anticipate and

take advantage of certain trends are likely to

outperform their competitors.

watch television.

Continued from Page 9

hold cleansing products will continue to encourage both products and packaging innovations. Several such innovations were and men, all of whom account for a growing proportion of shopping dollars.

Marketers are likely to adopt promotion. introduced in 1985 and early 1986. Among the most revolutionary are Procter & Gamble's "Tide Multi-Action Sheets," disposable foam sheets containing premeasured amounts of laundry detergents, all-fabric bleach and fabric softener.

Others include "Act" (Clorox), a dissolvable capsule containing liquid laundry detergent. The "Bloo Duck," a 1986 introduction from Sara Lee (Kiwi) is a thick, liquid toilet bowl cleaner contained in a bottle with a spout shaped like a duck's bill. This allows the user to apply the cleaner more directly

and more neatly.

The demand for convenience products will continue to fuel the growth of multipurpose and concentrated products through 1986 and beyond. Laundry detergents will continue to be combined not only with fabric softeners but bleaches and enzymes as well. Similarly, all-purpose cleaners which both disinfect and clean such as "Tackle" ("Clorox") are likely to be popular.

Liquids also represent fast growing or emerging segments in several categories in-cluding laundry detergents and, more re-cently, automatic dishwashing detergents. Liquids account for over 30 per cent of laun-dry detergent sales in 1986, up from 25 per cent throughout 1985.

In 1986 all the leaders in the automatic dishwasher detergent category had introduced or announced intentions to introduce liquid versions of their products. These include "Brightside" and "Palmolive Autonatic" (Colgate Palmolive), "Electrasol Liq-iid" (Economics Laboratory) and ALL Lever Brothers).

In 1985 and early 1986, marketers of nousehold cleansing products increasingly esponded to changes in their consumer base through new approaches in promotion and

For example, in the laundry detergent catagory, a new product was positioned as a cleaner for baby clothes. (Mennen's "Baby Magic"), while marketers of starches and sizings developed light starches geared for younger, working consumers. In the future, marketers are likely to position products towards single persons, older persons,



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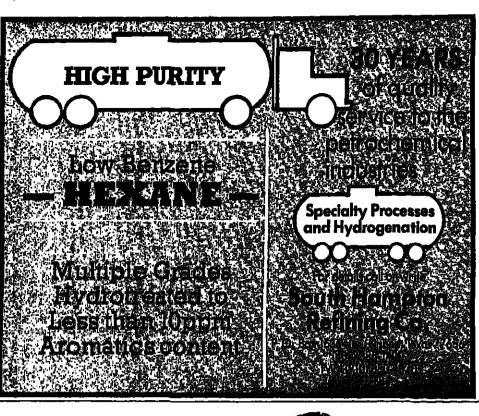
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Disinfectant Problems Cited

grants in laboratories of at least four states. "The primary reason for our support...is related to the tests currently in use to measure the efficacy of disinfectants — especially the Association of Official Analytical Chemists' Use-Dilution test," he said.

Mr. Engel told the subcommittee the test is ubject to significant variation in results and hus requires a high level of expertise to per-

form properly and consistently.

By having the test performed by a single laboratory, he said, the incidence of having an antimicrobial product pass tests in one state laboratory, and then fail in another, would be minimized if not eliminated.

Mr. Engel disputed the contention by Sen. Sarbanes and others that many disinfectants do not work.

"Considering that the role of hard surface disinfectants in hospitals and other health care facilities is to assist in reducing the numbers of pathogenic organisms to nonhazardous levels on hard surfaces ... those accusations are not well founded," he said.

Mr. Engel added that CSMA knows of no validated instances where the effectiveness

of current hard surface disinfectants, when used according to label instructions, has led to cross-infection in hospitals.

Sen. Gore said he proposed his bill because "many hospitals are just becoming aware of the problem and will need our help to solve

He said many hospitals had "blindly trusted" the false claims of some manufacturers in behalf of their products, adding that, "There are a few bad actors in this

Other witnesses included Dr. Martha Rhodes, assistant commissioner of the Florida Agriculture Department, and a leader in the fight against mislabeled disinfectants.

Urging reopening of the EPA laboratory, Dr. Rhodes said Florida has tested disinfections. tants for 18 years and has consistantly found 15 to 30 percent to be "ineffective" - which she said meant that a product either did not kill germs or actually contained living back-

Charles Shaffer, former director of the Beltsville laboratory, said few hospitals are equipped to test disinfectants and generally "placed their faith" in EPA approval of such

Mr. Shaffer, now retired, said it had been suggested that states take over testing but claimed few were likely to do so because it was "more efficient and logical" to have one main center perform the tests.

"Like most public health issues, this responsibility rests squarely with the Federal government," he said.

DPT Study

Continued from Page 5

age lawsuits have been settled or lost by drug

"What proof does Lederle offer that it needs upwards of \$50 million per year to pay for DPT-related liability expenses or that it could not get liability insurance in the private sector for less than \$50 million per year?" Mr. Schwatz asked.

He also noted that Lederle and Connaught now have a monopoly market for the vaccine, which is mandated by law for all children entering school.

SIZE OF SETTLEMENTS

A report prepared by the subcommittee staff showed that \$16.2 million was paid in settlements by seven US vaccine manufacturers to 52 children injured by vaccines during the past five years — an average of \$300,000 per case.

Of the cases that went to trial, vaccine manufacturers won four and lost six Five are being appealed.

Mr. Schwartz said the GAO investigation will "help us find out why we are paying such a high price for an old, crude vaccine instead of being offered a safer one."

For the past two years, Congress has been considering various proposals designed been sure at least some type of non-court-ordered compensation for families of children who have died or suffered permanent injury as a result of vaccine reactions.

The proposals have also sought to preserve a limited right to sue a manufacturer and to provide incentives for drug companies to develop safer vaccines.

However, no proposal has drawn support from both the drug industry, which wants to keep liability awards as low as possible, and parent groups, who want the right to seek

As a result, neither the House nor the St ate has been able to move legislation dealing with the compensation issue,

Both chambers are expected, though, approve bills ordering the Health and Human Services Department to stockpile vaccines collect data on adverse reactions and promote research into safer vaccines.

sources Committee approved the bare bone vaccine bill on August 6, Sen. Paula Hawking

ALIPHATIC ORGANICS

Caprolactam Supply Tightness Is Expected to Persist for Present

Caprolactam producers report that the market for the material is "quite tight," both on the domestic and worldwide levels. Supply and demand have been in tight balance for the last several they say they

years, they say.
One producer attributes the closeness of supply and demand primarily to strong fiber markeis. Caprolactam is a nylon precursor.
"It's driven by fiber demand," he explains, and he specifies that "it's primarily the home furnishings fiber demand.

Non-fiber markets are also performing well, according to a caprolactam marketer. He cites film and plastics uses in particular, and says that these uses may be growing at a rate of 7 percent or more.

These applications are growing from a relatively small base, however. The supplier estimates that the market breakdown is approximately 90 percent for fiber uses versus 10 percent for film and plastics applications.

OVERALL GROWTH

One maker of caprolactam projects "overall demand up 3 to 4 percent for the full year 1986, compared to 1985. That's what the industry has seen for the last 5 to 6 years." Caprolactam output increased by 5.5 percent in 1985 over previous year levels (CMR, 3/ 31/86, p.3).

The industry's tight balance is not only a function of demand. Total industry capacity is currently about 1.2 billion pounds, domestically. It is common knowledge in the industry, however, that approximately 50 percent of Nipro Inc.'s reported capacity of 360 million pounds is not currently operating. Nipro reports that its major unit is operating at near capacity, however.

The only current plans for expansion of US capacity are with Allied (CMR, 3/31/86, p.3).

The company is in the middle of a long term debottlenecking project. An Allicd spokesman said last week that debottlenecking will add about 5 percent to the company's caprolactam capacity in 1986.

As for major grassroots capacity additions, one maker says "I think that it is a matter of waiting and seeing, because the industry has experienced down cycles in the past also.

Another maker agrees that caution is in order because of uncertainty about the future of the general economy. "If the oconomy goes down at all," he reasons, "fiber business will go right down the tubes." People will be less likely to replace carpet in a weak economy he points. omy, be points out.

The effect of longer wearing carpets — and resultant declines in fiber demand over time — are also factors that bear watching.

Another observer asserts that "the econ-

ALIPHATIC ORGANIC IMPORTS: JUNE

BUREAU OF CENSUS FIGURES FOR THE KEY ALIPHATICS

to competitors, and uncertainty on that score

WEEK ENDING AUG. 15, 1986

CHANGES/UP

CHANGES/DOWN

The Allphatic Organics index reflects

roduced in 1985.	ı
Aug. 15, 1986 222.80	l
Aug. 7, 1986222.80 July 18, 1986222.80	1
Aug. 16, 1985 203.80	Ì
Chemical Prices Start on Page 32	Ì

is likely to dampen impulses toward construction of major new facilities.

One maker says, however, that if demand continues to expand, the absence of new capacity could make for shortages in the future. Producers say that the US market is currently tighter than the overall world mar-

'Another problem is the raw material situation," says a producer. He complains of raw material price fluctuations keyed to various OPEC actions of the recent past. "It has been difficult to keep in perspective with raw materials going up and down," he complains. "No one knows where it is going to go," he

Another source reports that prices for caprolactam on the merchant market are currently moving up "with benzene and cyclohexane on an upward swing." He says that prices declined from levels reported in late March, and then firmed. He asserts that selling prices currently are in the vicinity of 62

PRICES TRENDLINES

ALIPHATICS INDEX

the prices of 20 representative materials n this sector and the quantity of each

produced in 1985.	ı
Aug. 15, 1986222.80 Aug. 7, 1986	Į
July 18, 1986 222.80	l
Aug. 16, 1985	ļ
Chemical Prices Start on Page 32	Į

cents to 64 cents per pound for the largest accounts. He suggests that prices are in the low 70's for medium accounts.

ACETONE - This material has not weakened in price as much as crude oil or some other crude derivatives during the depression in oil prices, according to a producer. Acetone exports are described by the

2,867,078

761,339 4,786,858 148,451

6,263 4,862,048 199,865 56,505 23,498 644,770 2,863,149 786,046 44,325 384,048 533,374 1,008,141 669,493

272,448 688,689

24,062,281

182,888 6,268 32,358,114 1,181,421 106,161 70,133 895,852 13,418,460 1,356,719 6,162,724 35,700

1,644,113 934,786 8,677,865 1,777,382 361,500 1,567,609

220,084

121,709 52,033
22,133,349 3,382,998
117,708 31,840
6,183,499 1,616,015
231,994 74,923
965,304 621,113
36,620,600 10,251,050
7,684,824 1,068,441
2,003,814 285,956
44,348 45,672
1,263,799 377,796
1,496,822 772,498
13,249,116 1,935,418
6,036,515 1,131,026
347,500 686,486
2,608,828 2,382,163
4,302,588 846,329

72,513

247,689

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ALIPHATICS

and he says that domestic demand has also

These welcome trends have combined to shore up the price of acetone, he concludes, and have kept it firmer than phenol during

The maker says that the US industry faced net imports through June of 1985 of 20 million pounds. The same period in 1986 found the industry with net exports of 3 million pounds. The trend, which he attributes to the weakening of the dollar, "might be better by the end of the year."

As for domestic demand, he predicts that

1986 will finish about 80 million pounds above last year's total, which translates to growth of approximately 4 percent. That compares to a negative 3 percent growth rate for the full year 1985, the maker says. A competitor shares his view of the export market. "Export demand has been

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quite strong," he relates, and he also says that imports appear to be abating some-

He attributes some significance to the weakening dollar, but he also cites an additional factor that has improved the health of the acetone industry. He says that reduced phenol output has reduced produc-

Demand growth is likely to arise primarily from methyl methacrylate and bisphe-nol-Λ end markets, according to a maker.

He describes bisphenol-A as a "mixed blessing," however. The material is a raw material for polycarbonate resin, which is one of the fastest growing of all plastics But bisphenol-A production consumes phenol and acetone in a 2:1 ratio. The result is the production of more phenol than would be necessary to generate the necessary amount of acetone, and resultant oversupply of acetone coproduct.

The maker also says that short term acetone demand for coatings will be fairly strong, but will weaken in the longer term as a result of the trend toward water-borne

Pricing for largest customers is said to be in the vicinity of 15-1/2 cents to 16-1/2 cents per pound, with average customers (buying in tank car quantities) paying 21 cents to 22 cents per pound.
One producer said that as of last week its

list price East of the Rockies is 22 cents per pound, with a 1 cent higher list West of the Rockles.

Plastics Margins

Continued from Page 5

been "reasonably happy" with LDPE margins the past three years. He says LDPE operating rates have risen to the point where margins have grown enough to attract new

High density polyethylene has seen strong growth, but Mr. Scott notes that pricing has een weak. This is because "surplus LLDPE has been dumped into the injection molding market." He says poor pricing will continue in the HDPE market until LLDPE prices rise enough to "altract LLDPE capacity away from HDPE markets." Yet, Mr. Scott also notes that demand continues to grow for HDPE, but no new plants are in the works,

"so supply-demand should improve."

Another speaker at the meeting, Martin
Fernandi, vice-president, marketing at Ampacet Corporation, noted that HDPE growth was up 4.5 percent through the first five months of May, but in the same five months of 1985, HDPE grew at 8.4 percent over the previous period in 1984.

He partly attributed the slower growth to a
12 percent drop in HDPE pipe sales through
May, which he said was a reflection of the soft housing, agricultural, and oil markets.
On the up side, though, Mr. Fernandi said
HDPE use in film applications was 10.6 percent ahead of year earlier levels, while blow molding applications, its largest end-use, ran 5.9 percent ahead of last year. Ampacet is a major supplier of additives and colorants to the plastics industry.

the plastics industry.

Turning to polypropylene, Mr. Scoli says the business is benefitting from a combisition of "rapid growth" and falling feedsock costs. He says demand growth is outpacing new capacity, while raw material propyled prices have fallen 40 percent since last winter.

The US is in a good position to benefit from these factors, he noted, since producers here are the lowest cost propylene suppliers in the world. Mr. Fernandi highlighted this advantage by noting that while domestic sales of PP were 3.3 percent higher in the first five months of 1988 corporated to 1985, experts months of 1986 compared to 1985, expert sales surged almost 30 percent above year

Mr. Scott also said that polystyrene pro ducers were having their first good year since 1979, due not only to lower cost and stock, but also to extensive consolidation and stock of the stock restructuring in the industry. However, Mr. Scott also pointed out that PS "suffers i vertical integration," explaining that PS is often used as an outlet for excess supplies 0

styrene and even benzene. In general, Mr. Scott said he was "fairly optimistic about plastics through the optimistic about plastics through the decade." He said demand is growing fairly well, and most of the new capacity due of life in the decade is already in place. Further more, polymers are outgrowing more traditional rivals, such as metal and glass, and new market opportunities are coming into

FIFRA Finally Gets Continued from Page 3

extension within two years prior to the expiration of the extended patent.

If the extension of the patent is less than two years, testing could begin within one year prior to the patent expiration. It would not be considered a patent infringement to conduct tests on a pesticide not receiving a patent term extension two years prior to the expiration of the patent.

On the related issue of data compensation - how much money a company must pay to make use of another company's research data on a pesticide — the panel approved a proposal by Sen. Richard Lugar (R-Ind.), which provides for nonbinding arbitration and judicial review in a US court of appeals of the arbitration decision.

PPA had argued that because arbitration decisions could cause small producers to pay huge sums to make use of a patent-holder's health and safety data, the small producers should have an opportunity to begin their own time-consuming testing at an early date. The early start would allow the companies to apply for a pesticide registration as soon as the original maker's patent on the pesticide ex-

In other actions, the committee approved amendments by Sen. Paula Hawkins (R-Fla.), to require EPA to issue groundwater residue guidance levels to protect against pesticide contamination, and by Sen. Helms to prohibit states, with limited exceptions, from setting tolerances that are more stringent than the Federal limits.

The Hawkins groundwater amendment is supported by all groups involved in the FIFRA debate and will be added to the House bill as a substitute for the current provisions.

However, environmentalists strongly op-pose the Helms uniform tolerance proposal and say they will fight to remove it. The situation is revered in the House, where Rep. Pat Roberts (R-Mont.), says he will attempt to add the prohibition to that chamber's bill.

The centerpiece of both the House and Scnate bills is a new accelerated timetable for EPA's reregisiration of pesticides currently on the market, but for which much health and safety data is lacking.

Those chemicals were grandfathered in when the current law was drafted in 1972. But of the 600 active ingredients that new safety checks, EPA has completed action on just 127 in 14 years.

EPA says the problem is that the current law is too cumbersome, with a maze of regu-latory steps and appeals processes and long deadlines for the gathering of data. Conse-quently, many of the chemicals on the mar-ter have proved the control of ket have never been tested to determine their

safety.

Under the new logislation, EPA is required to reregister pesticides approved before November 1984, in about nine years. Tokolp assure that funding will be available for this effort, companies seeking reregistration must pay one-time fees ranging up to \$150,000 for each active ingredient.

Fees can be waived or reduced for small businesses and for companies producing mi-nor-use pesticides, such as the members of the Chemical Specialties Manufacturers As-

ICI Buys Glidden

Continued from Page 7

claims a market breakthrough in metallic automotive finishes for its water-based "Aquapace" industrial products. Annual research and development spending on these and other projects is nearly \$45 million, the

The move will bring to well over \$1 billion the amount ICI has spent over the past 18 months on acquisitions in the US as part of its strategy for expansion in consumer, spe

cialty and performance chemicals.

Harry Corless, chairman of ICI Americas, Inc. called the acquisition "another major step" in ICI's objective of increasing its business in the US. ICI sales in the US, which reached \$1 billion in 1982, is now over \$3 billion. Mr. Corless save the appropriate in billion. Mr. Corless says the company's increase in profits during the four-year period has been even more impressive due to the pace of development of its specialty and performance (chemicals) businesses.

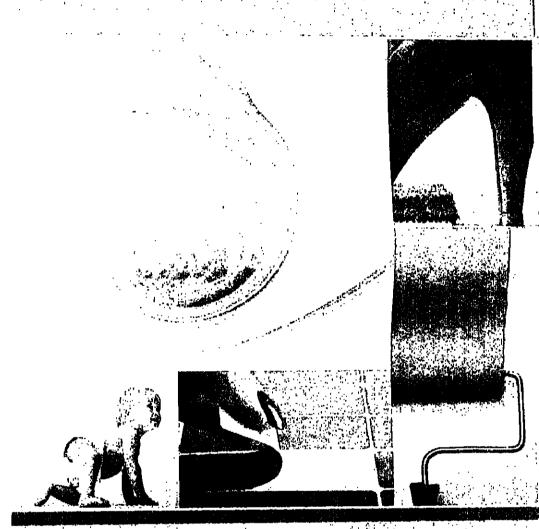


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DRUGS & FINE CHEMICALS

Methionine Prices Gain in '86. Offsetting Declines Last Year

price increases are possible at the end of — cattle feed yearly. 1986 or, more probably, the beginning of

The most recent increase was effective April 1, initiated by Rhone-Poulenc and quickly followed by Degussa Corporation and Monsanto Company. Price increases were attributed to a weaker US dollar, which has dropped further since then. Both Ithone-Poulene and Degussa import some material (Rhone-Poulenc from France, and Degussa from Germany). Regardless of the dollar, however, selling prices are still far below the levels of 1981 partly because of competition levels in 1985. This could be the justificiation for further increases, hint some producers.

In 1984, truckload price for contract customers of Degussa and Rhone-Poulenc was about \$1.80 per pound. The current price is \$1.20 per pound, up from \$1.07 per pound. Spot purchasers pay \$1.23 per pound for truckload quantities. One ton cost \$1.23 per pound (\$1.25 for spot buyers) and \$1.26 per pound for less than one ton (\$1.29 for spot

Meanwhile, Monsanto's "Alimet" (liquid methionine hydroxyanalogue) moved up to 99 cents per pound for contracted customers up from 88 cents per pound. Spot purchasers pay \$1.02 per pound. The company's "MIIA." (methionine hydroxyanalogue calcium), a dry product, costs contract customers 97 cents per pound, up from 86 cents per pound. Spot buyers pay \$1.

CATTLE FEED ADDITIVE

Unlike lysine, methionine pricing is not closely related to those of soybean meal and ishmeal. One observer comments that methionine's price would have to be \$2.40 per pound before soybean meal and fishmeal producers would consider using less, and could dip to as low as 50 cents per pound before they would consider using more.

Research is being done to increase methonine's usage as a cattle feed additive. The primary problem has been finding a way for the methonine to bypass the cow's runch unchanged. One methonine producer explains that for methionine to be digested, it must reach the small intestine intact.

In cows, the methionine first goes to the rumen. It is then "attacked" by acids, broken down, and ceases to be as effective. The producer says a coating of some sort will be needed to prevent the breakdown. Sources claim that some tests have been successful, but not on a consistent basis. Currently, un-

Methionine producers now say further der timilion pounds of methionine methion

As demand is tied almost directly toms try consumption, methionine is expected see growth between 3 and 5 percentings. line with poultry output. Some estimates

PRICES TRENDLINES

WEEK ENDING AUG. 15, 1988

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

The Drugs & Fine Chemicals index+ flects the prices of 10 represents materials in this sector and theary of each produced in 1985.

Aug. 15, 1986 Aug. 8, 1986 July 18, 1986 Aug. 14, 1985

Chemical Prices Start on Page 11

the poultry segment accounts for about percent of methionine demand, if not not Overall US demand is estimated being 90 million and 100 million pounds annual with some opting for the lower end of scale, and other claiming the total is close: the upper limits.

Imports are up through May, compare the comparable period in 1985. About 15 million pounds of methionine have enter the US, compared to about 10.6 mile: pounds last year. Of the 12.3 million pour almost 12 million pounds are from France

Last year through May, a little under million pounds had come to the US to France, Conversely, imports from Gene have dipped to 290,000 pounds from 1900 pounds, and Japanese imports are don't about 39,000 pounds from 88,000 pounds

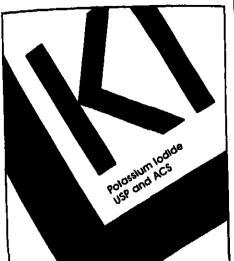
MSG - Pricing is still considered soft it has been all year, but some recentders) ments may cause a tarnaround.

According to a major source of MSE & Talwanese recently announced a 7 108# cent price increase of their MSO. Two

DRUG & FINE CHEMICAL IMPORTS: JUN

CENSUS BUREAU REPORTS ON THE TOP DRUGS

			A 1100	QUANTITY
1	A	QUANTITY	\$ VALUE	
1	Acetaminophon	660,262	1.694,644	
1	Benzenold drugs, n.s.p.fibs.	201,373	2,113,000	177.4.
ł	Brucine			405 200 1,771,45
ı	Caffains	65,400	37,865	435,300. 1,77
1	Caffeine	388,650	1,558,409	435,300 2,89030 4,095,780 2,89030
1	Citric Acid	4.249.776	2,586,951	4,095,750
1	Cream of Tarter	247,530	136,449	224,109 1,07,51
1	di-pantothenic acidibs.		1,529,608	273,24
1	lodine crude	435,725		240 Per 1 931 (N
1	lodine, crude	108,026	603,254	7 158,809 494,91
1	Monosodium glutamateibs.	7,261,116	3,985,495	214,949 714,711
1	Riacin, pharmaceutical grade	99,207	214,353	
1	Penicilin G solls	151.544	1,910,528	223,407
1	rainciain n.s.D.T	15,012	1,095,548	13,800
1	Phenylephrine HCI	. 104012	2 (Danie de la constitución de l	1 102
١.	Potageium enginem terteste (Deste de Constante de Constan		ADP	11,023
1.	Potassium sodium tartrale, (Rochelle Salts) . ibs.	58,016	35,695	735,110 , 431,65
1	Connection of the contract of	426.585	1,309,033	163,643 441,18
1	THE COMMINDER OF ITS SOURCE AND ADDRESS OF THE PROPERTY OF THE	110,654	238,088	17,650
1.	Saconarin	146,096	313,359	117,650 714,05
1	Pigroid dormones, synthetic		497,832	2,121,146 310,00
-10	Suifamethazineiba.	733,436		74,076 22120
-11	Suitathlazola	185,672	763,711	90,169 ms 61
1		31,349	143,229	493,451
1.	Tariaric acidibs.	325,251	332,316	483,108 and
1.	The transfer of the transfer o	376.712	2,693,404	102,619
· 1:		- III	780,048	108,614 211,44
- 1	. The state of the		3.054.669	1007466 200
1.			601,044	448 447
-1.	Vitamin C	13,663		1382,914
110	Vitamin C	1,426,843	4,902,495	336,400 SHE
Į.,	Vitabulan availbanta	271,910	1,245,479	124.第15 月4年
-10			159,021	444.545
310	Woolgrease n.d.p.h.	068 702		400



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DRUGS & FINE CHEMS

prices. MSG prices have recently been in the

74c. to 78c. per pound range.
The reasons behind this move are thought to be twofold. First, the Pacific Ocean Freight Company announced that effective Aug. 15, shipments from the Far East would be tagged with an additional freight cost of 1c. to 11/2c. per pound. The second reason, expected to affect everyone, is the depletion of Soviet material on the world market, because of the Chernobyl nuclear disaster.

Until these developments, pricing was called soft because of competition levels. One importer complains that there are too many companies involved in the market, and that this has kept pricing soft. However, it is thought by some sources

that the Taiwanese decision will influence others to alter their pricing. One importer says that his company has recently decided to reduce some of its TVAs, for example.

BOTANICALS

LOCUST BEAN GUM - Pricing has fallen during the last few months, but is still far above normal levels.

Price is currently pegged at about \$4.95 per pound. This is a dip from the \$6 to \$6.75 per pound pricing of late last year, but almost double the \$2.50 per pound price of lasts

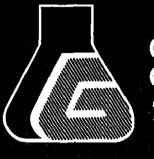
Sources had expected prices to soften to between \$4.50 and \$5 per pound. Now, they are waiting for new crop in September or early October. According to one source, at that point prices could either rise or fall, depending on the crop.
Supplies are considered readily available

by one source, who says that concentrating on "clearing their shelves," in order to make room for the new crop. He mentions that no one wants to maintain an inventory now, in case prices fall after the new crop.

Imports are up for the first five months of 1986. Through May, 2.39 million pounds came into the US, as opposed to 1.9 million pounds through May 1985.

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CHEMICAL MARKETING REPORTER

August 18, 1988

PickensRecommends

Continued from Page 9

benign effect on the market, especially if

functioning as a Washington lobby.
The choice, Mr. Trabandt said, "is between the free market and Federal controls, and this administration has come down on the side of the free market."

Mr. Pickens forecasts that the price of oil would rise to \$18 to \$19 per barrel by the beginning of next year. Subsequent increases to the high 20's should not be expected to bring about any substantial increase in oil exploration in this country, he said. It would take \$30-per-barrel oil with an expectation of a rise to \$50 to substantially increase the number of operating rigs, which has fallen to a modern low of 734, only 20 percent of the

peak reached four years ago.

Mr. Pickens had critical words for the large oil companies, some of which have been targets of unsuccessful merger campaigns by Mesa. He said that Mobil Corporation was paying its dividend by selling inventory, and conversely that a West Coast oil company has cut its dividend even though its payout was only a small part of an enormous cash flow. He also noted that Phillips Petroleum Corporation sold \$1 billion of assets with no reduc-

tion of each flow and he inferred from the tion of cash flow and he interred from the that the divested assets had been making to contribution to cash flow and therein should have been divested sooner.

In arguing for the need for mega-mager and restructuring, Mr. Pickens said that a lowing the oil industry to restructure "all enable it to avoid the fate of the US state

OBITUARY

Harry J. Doyle

Harry J. Doyle, a leading figure in the cosmetics and fragrances industry and assets. ior executive of Revion, Inc., for moreha four decades, died August 8 in New YorkCh. He was sixty-seven years old.

Mr. Doyle worked closely with Charles Reson throughout his career and the growth's Revion as a worldwide company in the years, he worked with Princess Mared Borghese on the development of the Retin owned company which bears her name as served as president of the Princess March Borghese Inc. division until 1979.

He served as Revion's vice-president new business development until his format retirement in 1984.

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Ocean Incineration Backed

Continued from Page 7

velop, any ocean incineration program should be structured to be interim.

From the outset, OTA says several approaches might be used to control a program's scale and duration, such as directing certain wastes toward or away from ocean incineration by requiring waste producers to demonstrate their need to use the technology.

In contrast to land-based disposal, incineration — on land or at sea — can destroy more than 99 percent of certain hazardous wastes. largely breaking them down into substances that are less harmful or more manageable, such as water vapor and carbon dioxide.

However, metals and small quantities of undestroyed or partially destroyed waste that are released in the process can be harmful, and must be stringently controlled, according to OTA.

The report says ocean incineration may be particularly useful for wastes that are highly chlorinated. Burning these wastes generates an additional product, toxic hydrogen chlo-

ride gas.
To prevent human exposure to this gas,
OTA says land-based incinerators must neutralize it through a scrubbing process which itself generates hazardous waste. Ocean incineration, which would occur far offshore, would use seawater's natural ability to neu-

Because land-based incineration almost invariably occurs relatively close to populated areas, its primary risk to people is from exposure to routine emissions, says OTA.

In contrast, ocean incineration's main risk is to marine resources, from an accidental spill which would be difficult or impossible to clean up. OTA says the major risk to humans

from ocean burning would probably result from the transport and handling of wastes on

Of the 250 million metric tons of hazardous waste generated annually in the US, up to 20 percent could, in principle, be incinerated,

Up to half that fraction — organic liquids could be incinerated at sea. These liquids. which include PCBs, are among the most toxic and concentrated of hazardous wastes.

As much as 65 percent of organic liquid wastes are currently disposed of on land or used as fuel in boilers and furnaces. Only small amounts are now incinerated, all on

If an ocean incineration program is to be developed. OTA says several issues — Including regulating hazardous waste transportation and incinerator emissions - need resolution so that the technology can be conducted in as safe a manner as possible.

Rep. Roy Dyson (D-Md.), who staunchly opposed EPA's tentative approval of the plan to conduct a test burn off the Atlantic Coast, says the report "reiterates the many dangers and unknown factors" which thus far have blocked the use of ocean incineration off the US coastline.

"As stated in this report," says Rep. Dyson, "this process may reduce the amount of waste without reducing the risk to humans and to the marine environment. I believe that this is an unacceptable and unnecessary risk when we can continue to support our safer technologies, which include treating, recycling, and reducing the amount of toxic waste

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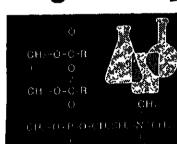
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Carbide Discloses

Continued from Page 3

pect as a way of trying to exert pressure on the Indian government to settle out of court.

Mr. Ahmad said, however, that if the company has "hard evidence" of sabotage, it should turn over such information to Indian authorities. He said the company would be obstructing justice by withholding such evi-

"That's absurd," said Bud Holman, Carbide's outside legal counsel, who countered that the Indian government hasn't disclosed "a single bit" of its Bhopal investigation. "Is their failure to disclose an obstruction of justice?" Mr. Holman suggested that the government is withholding its own evidence of sabotage because it would hurt the government's case against Carbide.

Mr. Ahmad, who called Mr. Holman's remarks "absolutely ridiculous," insisted the government has "not come across any such evidence." He said the government would -

have publicly disclosed evidence of subotage

In its statement last week, Carbide said & will "share our conclusions with the lader government upon completion of our pre-tile investigation."

Meanwhile, Union Carbide India, owner of the Bhopal plant, made provisions last week for a \$6.7 million writeoff of the plant Union Carbide India is 50.9 percent-owned by Union Carbide Corporation.

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MAGOX* 98 MAGOX* 90	Drilling Muds	Used as a buffer, corrosion inhibitor and viscosity control ingredient.
MAGOX* 98 MAGOX* 95	Rayon	To make Mg acetate which is used in cellulose acetate production.
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HEAVY & AG CHEMICALS

Potash Makers See

BalaCynwyd, Pa. says planted corn acreage in the US next Spring will fall 8 percent to about 70 million acres. Corn consumes about one-half of all potash sold in the US.

Mr. Baumes says that acreage planted is likely to be more heavily fertilized, but total potash consumption in the US should still fall about 3 percent this fertilizer year.
While most analysts concede that domestic

demand for fertilizers will decline for another year, they suggest that the seed for a better business climate is in place. Mr. Baumes notes that while domestic plant nutrient consumption will be down 3 percent to 5 percent this year, greater knowledge of government farm policy allows for farmers and their creditors to plan the new season with more certainty. He says an established farm program puts farmers in a far better planning position than the uncertainty that greeted them last Fall, and the results should benefit all fertilizer producers, especially makers of low-priced potash.

CONSUMPTION WILL FALL

A potash producer says fertilizer consumption in the US will decrease this year, but he adds, the potash producers industry "has a little better understanding of demand expectations and can gear production to shipments better than (they did) last year when they had a difficult job of coordinating (sup-ply with demand). However, he also points out that "significant" domestic demand for fertilizers is still two to three years down the

Meanwhile, producers pin their hopes on the export market. One producer relates that exports through most of 1985-1986 were running a dismai 21 percent behind year carlier levels, before a late surge in overseas orders closed the deficit to 9.5 percent (2.8 million tons, K2O basis). The producer expects this trend to carry over through 1986-1987.

He says renewed buying interest from China and elsewhere will push North American exports in the current fertilizer year 10 percent to 15 percent above the 3.1 million tons of K2O sold overseas in 1984-1985. The producer adds that this anticipated surge in sumption of potash.

A spokesman for Canpotex, the Canadian potash export cartel, is slightly less optimistic about the export market, at least in the near term. He says excess world capacity has made selling potash at a price that covers producers' cash costs increasingly difficult. He currently quotes potash export prices in

the \$70-per-product-ton range, f.o.b. Vuncouver, B.C., down slightly from Spring quotes.

In his view, export shipments in the first half of the current fertilizer year should reach 1.7 million matric tons of modulet up reach 1.7 million metric tons of product, up slightly from last year, and roughly the same as the six month period ended June 30, 1986. He says China has been purchasing potush

prospects for potash remain bleak.
Harry Baumes of Chase Econometrics,

Chippen be added to the market last year. The Chinese, he adds, will buy a total of 400,000 metric tons of product this calendar year, which is "not like 1984, but it's headed in the right direction."

Mr. Baumes of Chase Economics notes that while China is more actively purchasing potosh, competition in the world market from Israel, Jordan, and Soviet Bloc nations has intensified, no longer guaranteeing North

PRICES TRENDLINES

WEEK ENDING AUG. 16, 1986

CHANGES/UP

Caustic Soda solution, \$30 per tar CHANGES/DOWN

HEAVY & AG INDEX

The Heavy & Ag Chemicals index reflects the prices of 18 representative materials in this soctor and the quantity of each produced in 1985.

	Chemical Prices Start on Page 32	!
۹ug.	14, 1985 1	13.69
	18, 1986 1	
	8, 1986 11	
۱ua.	15, 1986 11	13.69
	p	

American exporters dominance in the inter national market.

North American potash prices reflect the current Summer slowdown in business activity, Currently Saskatchewan producers quote a price of \$38 per ton, 60 percent K2O for standard potassium muriate, f.o.b. mine. This compares to a Spring high of \$44 per

BASES & SALTS

CAUSTIC SODA - Dow Chemical USA, citing improved demand and reduced supplies, has posted \$30 per ton, off-list, price increases for caustic soda solution, effective immediately for spot buyers, and as terms allow for contract customers.

Dow's current caustic initiative follows a export consumption should roughly offset the projected decline in North American consumption of solvents. North American consumption of solvents in North American consumption of solvents in the Line. month. At the time, spot prices for railcar sized purchases of liquid caustic in the US Gulf Coast were \$80 to \$90 per ton.

Also during the month, two large chloral-kall facilities were shutdown in Texas, adding to a several year trend of capacity rationalization in the business. On July 7, Dow closed a chloralkall unit in Freeport with a rated capacity of 1,375 tons per day of caustic soda. At month's-end, Du Pont shut its Corpus Christi chloralkali unit with a combined chlorine and caustic soda capacity of 2,500 tons per day. Dow says these shut-downs, coupled with "modest" demand growth has driven chloralkall operating rutes to near 95 percent of on-line capacity. Dow says caustic demand in the first half

INORGANIC CHEMICAL OUTPUT: MAY

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Akuminum aulifate, commercial		08' YAM	APRIL	MAY '85
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Caustic sode, liquid		16,690	16,079	22,142
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Sodium metal	***********	22.753	21,004	S & 1426 1
auliste, anhyd		place.	"好,我们是他的	3.3.3.4
Sodium chlorate Sodium sulfate, anhyd	***********	69,298	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 37 WEND: 3
			1	

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CHEMICALMARKETING REPORTER

August 18, 1986

HEAVY CHEMICALS

of 1986 has climbed above year carlier levels in several segments. Sales to the chemical industry climbed 4 percent in the first half, demand in the petroleum refining business was up 3 percent in the period, while wood pulping used 3 percent more caustic and paper and paperboard production took 4 percent more solution. Textiles, a smaller enduse, used 11 percent more caustic in first half 1986 than in 1985.

At the same time, Dow says caustic soda's trade balance has improved this year. Partly due to the softer dollar, exports of caustic soda from the US have increased this year, while imports are on the decline.

These factors, improved demand and reduced supply have helped soak up extra caustic supplies, and have improved the balance between caustic and chlorine supply and demand. These conditions, coupled with "the need to restore price and margins in the chloralkali business," were the driving forces behind Dow's current price initiative.

Dow's current list prices for caustic will

remain unchanged. The company also says that upon Superfund reauthorization, it will add the Superfund tax on chlorine and caustic soda as a separate line item to each invoice. SULFUR DIOXIDE — Stauffer Chemical

Company says it will increase the price of liquid sulfur dioxide by \$10 per ton to the per ton, bulk, effective September 1 or a contracts permit. Terms are f.o.b. Repmond, Ind., Baton Rouge, La., Houston, Ta., and Martinez, Calif.

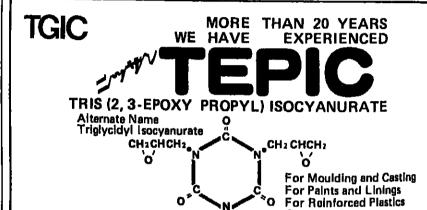
Stauffer says the increase covers higher sulfur costs and other production increase incurred since SO₂ prices were last raise over two years ago.

INDUSTRIAL GASES

Air Products and Chemicals, Inc. apt will increase the list price of its specify gases and equipment, effective Septembri, 1986. The list prices of most single care. nent gases will rise 7 percent while me blended gas prices will increase 12 percent The list price of gas-related equipment increase 7 percent, the company says.

Air Products says these increases, before since December 1984, will affect over 10pg. cent of the company's specialty gases.

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COATINGS & PLASTICS

Organic Peroxide Price Hike Holding Despite Overcapacity

ethyl ketone peroxide) prices and 6 to 8 percent increases in peroxydicarbon-ates costs are holding, "for the most

All suppliers except Reichhold Chemicals Inc., a smaller player in the market, have

for its dry benzoyl peroxide (BOP) from \$4.86 per pound to \$5.25 per pound, effective July. Other BOP producers have yet to follow with

threatening to push a British producer out of business. "If the dumping continues, the source threatens, "we'll see them in court."

One market source has indicated that there may be some short-term supply problems with peroxydicarbonates due to problems with Lucidol's and US Peroxygen's plants. The source feels that an accident at Lucidol's Fort Erie, Ontarlo plant two weeks ago may have had some discreptive effect on ago may have had some disruptive effect on

PRICES TRENDLINES

The Coatings & Plastics index reflects

the prices of 13 representative materials

in this sector and the quantity of each

Chemical Prices Start on Page 32

July 23, was a minor incident which had no effect on supply levels. Similarly, he stated, the shutdown of its Buffalo plant represented

only a minor dislocation of supply, as inven-

tory levels were sufficient to handle demand.

that they are considering consolidation of

their California and Texas plants, and feel

that expansion of their Marshall, Tex., plant

might be more beneficial to them, given Ar-

gus Inc.'s strong Texas presence. The Cali-

fornia plant will not be shut down, they as-

sert. As one source describes the situation, all

peroxydicarbonate producers are pushing

Producers report that prices for BOP con-

tinue to be deeply depressed. US Peroxygen

Inc. is so far the only firm to have increased

its prices, aithough all producers agree that increuses are warranted. All demestic sup-

pliers feel that a price increase will be neces-

sary to restore health to this segment of the

SAN RESINS - Sources say that demand

for styrene acrylonitrile (SAN) resins is down largely as a result of imports, and substitution of cheaper plastics, such as acrylics and polystyrene, in major end-use applications.

Capacity utilization rates are said to be in

fard to keep up production rates.

PLASTICS MATERIALS

Likewise, US Peroxygen officials report

306.4

. 306.4

WEEK ENDING AUG. 15, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

produced in 1985.

Aug. 15, 1986

Aug. 8, 1986

Aug. 7, 1986

Aug. 14, 1986 .

Producers report that July's 5-cent-per pound increases in MEKP (methyl carbonate plant. Spokesmen for both Lucidol and US Per-

oxygen said otherwise. A Lucidol representa-tive explained that the Canadian plant explosion, which occurred early in the morning of

hiked prices for the peroxides. One producer, Catalyst Resources Inc., which does not produce MEKP, raised prices

Although they assert that the increases have been holding in most cases, producers have been having difficulty getting MEKP prices to stake in certain areas of the US. particularly on the West Coast. One source blames this on what several call the "bizarre pricing behavior" of one large producer. complaining that the firm has been dumping foreign-produced MEKP and BOP (the only peroxides which can be transported safely and relatively inexpensively) at slightly above cost in an attempt to steal market share. The source reports that the firm's parent company is currently involved in a major lawsuit with the EEC involving charges that it has been unfairly undercutting BOP prices,

DUMPING DENIED

A spokesman for the company firmly denies these dumping accusations, insisting that imported material makes up an insignificant portion of the total amount of MEKP and BOP it offers on the domestic market.

Both MEKP and BOP market segments are currently dominated by overcapacity --as a source explains, one of his firm's plants alone would be capable of satisfying total domestic demand. When one considers that there are six domestic producers, the extent of the overcapacity problem is apparent. Sources give capacity utilization rates for the industry of 50 percent or less for MEKI

The situation for peroxydicarbonates is much better, producers say. In the past afflicted by overcapacity, the industry is reportedly running at 80 to 85 percent capacity. PPG Inc. dropped out of the business in January, alleviating this problem to some extent.

One market source has feelerated that

production. He also cites mechanical prob-lems at the firm's Buffalo plant, which re-sulted in its being shut down for one week.

Capacity utilization rates at a substance of the SAN the SAN is estimated. COATING & PIGMENT EXPORTS: MAY

BUREAU OF CENSUS FIGURES ON THE KEY PAINT MATERIALS.

QUANTITY 335,158

833,356

377,907 722,917 84,035 27,584 255,324 805,785 36,472 4,926,472 5,440,287 N/A 1,214,143 4,274,097 15,227,706 129,588

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CHEMICAL MARKETING REPORTER

777,002 314,983 1,219,326 458,472 1,398,575 3,344,925 524,457 1,945,964 2,584,548 2,584,548 2,584,548 2,584,524 2,58

210,078 120,808 109,367 39,941 674,193 880,111 \$19,062 3,147,729 88,844 917,570 10,998,522 18,940,248 148,097 310,419

938,876 133,573 1,090,985 418,199 983,517 3,580,777 2,668,912 2,735,807 387,306 2,433,251 10,184,017 142,561

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PERFUMES & FLAVORINGS

NA Vanillin Price Stabilizes: **Producers Resist Softening**

North American vanillin producers say that pressure to reduce prices during the last three months has been ineffective, and feel pricing appears to have stabilized as a result.

List prices range from \$13 to \$13.75 per ilogram. While discounting is acknowledged, producers insist it's not great enough o warrant list price reductions. Pressure has come from lower-priced Chinese imports. which are reportedly priced at \$11 per kilogram. However, producers say that many customers prefer North American material, and are willing to pay more for it. Therefore North American list prices are not expected

In fact, some producers hint that prices have a better chance of rising than falling during the fourth quarter of 1986. One producer comments that although there would be resistance to higher pricing by customers, an upward move may be justified by higher European pricing. After softening recently, European pricing is said to be between \$13.70 and \$14 per kilogram, and therefore is more attractive to some suppliers.

US supplies, generally considered tight at the beginning of Summer, are considered adequate now. This is despite a decline in imports during the first five months of 1986, compared to 1985. One producer cites softness in demand as a reason for the recent Improvement in the supply-demand balance.

US IMPORTS DOWN Through May, about 1.3 million pounds of vanillin came into the US, as opposed to about 1.5 million pounds through May 1985. China and France, whose imports are down 13 percent and 11 percent, respectively, are sald to be sending more material to Europe. China has sent about 283,000 pounds here through May, while France has exported about 110,000 pounds to the US.

Canadian imports, of which Ontario Paper, the world's largest producer, is the main source, are down by 17 percent. However, a spokesman says the company is buying some vanillin in the US and then selling it, which accounts for much of the decline in imports.

ESSENTIAL OILS

CLOVES — The clove market was active last week, according to a broker. Trading is said to have taken place at higher levels because of short supplies in the US and Europe. Also, new crops from Brazil and Madagascar will not arrive to the US before late Decem-

ber or early January. up 10c. to \$2.20 per pound. Ceylon hand-

ESSENTIAL OIL IMPORTS: JUNE

SELECTIVE STATISTICS FROM THE CENSUS BUREAU

picked was priced at \$5.95 per pound, and Brazil Ceylon stems at 78c. to 85c. per pound NUTMEGS - Nutinegs advanced last week, with the Indonesian cartel announcing no further sales until mid-September at the

Eastern Indonesian reconditioned was to 10c., to \$3 per pound; Eastern Indonesia

PRICES TRENDLINES

WEEK ENDING AUG. 15, 1986

CHANGES/UP

Anise Seed, recionned, 9c. perib. Annatio Seed, Kenyan, 8c. perib. Cassia, KB 2.50, 2c. perib. Cassia. KC 2.00, 3c. per lb. Cassia, KC 1.50, 3c. per ib. Cassia, Vera AA 2.75, 4c. per ib Cassia, Vera AA 4/6, 5c. per lb Cassia, Vera AA, 8/10/14/18, 4-7c. por lb min Sood, Turkish, 4c, por lb. Cumin Seed, NC Oct-April Del NPNS, 5c. pwh. Mace, Slauw #2, 20-25c, per lb. Nutmags, whi. E.I., 5c. per lb. Nutmags, E.I. Recond., 10c. per lb. Nutmags, E.I. Recond. Del., 7-10c. per lb. Nutmegs, E. J. Roconn. Del., 7-10c. per li. Nutmegs, W.I. Whole Lindd, 5c. per lib. Oregano, Greek 30 Mesh, 5c. per lib. Oregano, Turkish 30 Mesh, 5-10c. per lib. Popper, White Muntok, 5-15c. per lib. Turmoric, Alleppey FAQ 3-4°s, 1c. per lib.

CHANGES/DOWN

Alispico, Guatemain/Honduran, 2c. per ib Alispico, Moxican, 2c. por ib. Colory Seod, Indian NC, 2c. per lb. Fennel Seed, Turkish Extra Fancy, 4c. per lb. Mace, Padang Sittings, 5-10c. per ib. Paprika, Visual, 9c. por ib. Popper, Black Brazilian, 3c. per ib. Popper, Black Lampong, 1-3c. per ib. Popper, Black Maleber, 3-5c. per ib.

PERFUMES INDEX

The Perfumes & Flavorings index reflects the prices of 11 representative materials in this sector and the quantity of each sumplied in 1985.

Ol appli attibulati in 1999.	
Aug. 15, 1986	.7
Aug. 8, 1986	. (
July 18, 1986	.71
Aug. 14, 1985	, 82
448: 141 1900 :::::	_

reconditioned, delivered, was up 7c. to 10c

per pound, to between \$2.97 and \$3.05 per

pound; Whole Eastern Indonesian neing was up 5c., to between \$2.90 and \$2.50

YR TO DATE JUNE '55 63,604 3,844 8,413 2,246 8,229 2,246 225,044 62,414 6,313 178,699 37,222 40,311

165,454 60,677 62,616 1,138,283 42,480 640,252 9,538 165,771 4,685,899 1,879 362,432 63,324 142,612 7,873 69,857 51,199 11,196 15,199

70,945 2,154 21,421 168,864 275 84,165 44 11,172 303,570 91,975 62,301 63,905 33,783 13,613 281 3,208 12,738

1,667 12,022 124,818 32,000 132,401 42,020 333,788 99,470 1,268 330 4,586 1,356 25,134

7.20 12.553 62,153 4,000 180,667 13.203 103,064 13.203 103,077 430 26,578 430 26,578 11,323 1

pound. Whole limed Western Indon

Chemical Prices Start on Page 32.

Order 128 dms (40,657 lbs) (dert Atlantica) Bromor-haven, 7/1.

AMPICILLIN Beecham 145 kgs (11,845 lbs) (Atlantic Com-panio) Liverpool, 8/28.

ASCORBIO ACID Gyma Laboratorios 200 dms (22,046 lbs) (Rijeka Expeass) Rijoka, 6/29.

200 dms (24,251 lbs) (Tuhobio) Rijoka, 7/3. Leyden Customs Expeditore 200 dms (22,046 lbs) (Ri-leka Express) Rijeka, 6/29.

ASPIRIN Universal Transcontinental 380 dms (43,264 lbs) (Tuhobio) Koper, 7/3.

BARIUM CARBONATE Cometals 4,760 bgs (265,500 lbs)

(Yu He) Heingkeing, 7/2. BENZOYL CHLORIDE Trafpak 1 tnk (41,635 lbs) (Aldebr

BENZYL CHLORIDE Trarpak 1 tnk (41,535 lbs) (Aldebaran) Felbatowe, 7/2.

BENZYL ALCOHOL CDF Chimie 1 tnk (40,344 lbs) (Stefan Starzynski) Rotterdam, 7/21.

Monson Chemicals 90 dms (43,651 lbs) (Piler) Barcelons, 7/18.

BENZYL CHLORIDE Emery Ocean Freight 30 dms (13,767 lbs) (Atlantic Companio) Liverpool, 6/29.

BETA-HYDROXYNAPETHOIC ACID A Ueno Fine Chemical Ind 400 dms (41,599 lbs) (Ming Universe) Kobs, 7/3.

7/3.
Ueno fine Chemical Ind 960 bgs (53,968 libs) (Ming Universe) Kobe, 7/3.
BETA-NAPHTHOL Leschaco 1,080 bgs (42,770 libs) (Yu He) Hong Kong, 7/2.
Montedison 760 bgs (44,297 libs) (Neditoy Rosario) Leghorn, 7/6.
BETA-OXYNAPHTHOIC ACID Montedison 780 bgs (44,297 libs) (Pflar) Nanises 7/18.

(44,287 lbs) (Piler) Naples, 7/18, BROENNERS ACID Order 47 dms (8,538 lbs) (Ming Uni-BROMOPROPIONYL BROMIDE Ameribrom 1 dms (0 lbs)

(Exort Patriot) Haifa, 7/1.

BROMOTRICHLOROMETHANE Ameribrom 20 dms (0 lbe) (Export Patriot) Haifa, 7/1.

CADMIUM H & M General Trucking 11 pbx (11,680 lbs)
(Attanto Companio) Liverpool, 6/29.
Wogen Resources 266 cs (234,748 lbs) (American Maine) Hong Kong, 7/1.
CADMIUM-LITHOPONE PIGMENT Attas Intermedal Transport 280 drns (25,363 lbs) (Ming Universe) Yokohama, 7/3.
Leyden Custome Expediters 28 drns (3,805 lbs) (Ming Universe) Whittaker Clark & Danleis 68 drns (3,880 lbs) (American Chio) Pelixetowe, 7/3.
CAFFEINE Helm New York Chemical 250 drns (14,881 lbs) (CALCILIM CLORIDE DL INVORCES)

CALCILM CLORIDE DL HYDRAGE Blue Anchor 41 dms' (9,400 bs) (Stefan Starzynski) Bremerhaven; 7/21

CATECHOL Rhone Poulenc 1,440 bgs (80,953 lbs) (Nedlloyd Rosarto) Marseille, 7/8.
(Nedlloyd Rosarto) Marseille, 7/8.
CAUSTIC SODA Order of Shipper 1 bks (8,598,018 lbs)
(Stolt Osprey) Rotterdam, 7/8.
Order 882 bgs (45,417 lbs) (Sea Land Adventur) Alge-

US imports of chemicals and related materials are reported in this section by CPI materials. Listings include consignee where possible, container, net

weight, name of vessel (in parenthesis), port of origin and date of shipment's

US chemical imports/exports are tabulated monthly in the market reports.

arrival in New York or the Port of Newark.

2-AMINO-4-CHLORO-5-NITROPHENOL Order 25 dms (6,743 lbs) (Ming Universe) Kobe, 7/3. 2-ETHYL 1,3-HEXANEDIOL Nuodex 80 dms (37,566 lbs)

(TFL Franklin) Rotterdam, 6/30. 2ETHYLHEXANOIC ACID Order 1 con (39,737 lbs) (Al-

2ETHYLHEXANOLG ACID Order 1 201 (58,137 153) (Andebersh) Bremen, 7/2.
2ETHYLHEXANOL Order of Shippor 1 bks (2.204.567 bs) (Stoft Pride) Rotterdam. 7/22.
2-THOBARBITURIC Kuehne & Nagel 1 dms (24 lbs) (TFL Frankin) Bremerhaven, 6/30.
3-AMINO 1.2-PROPANDIOL Henley 21 dms (5.556 lbs)

3-MINO 1.2-FIOPANDIO Finding 21 dris (3,000 lbs) (Atlantic Companio) Gothenburg, 8/29.

3-METHYLTHIOPHENE Order 11 dms (4,850 lbs) (Atlantic Companio) Liverpool, 6/29.

4.4-BENZIDINE 2,2-DISULFONIC ACID Bemo Shpg 10

dms (3,314 lbs) (Ming Universe) Kobe, 7/3. 4-CHLOR-2-METHYLANILINE Order 12 csk (5,787 lbs)

(Ever Lyrle) Hamburg, 7/1.

4-METHYLUMBELLIFERONE Pan American Container

dms (536 lbs) (Aldebaran) Antwerp. 7/2. 4-PYRAZOLIC ACID Order 50 dms (7,273 lbs) (Ming Uni-

verse) Kobe, 7/3. 8-MTRO1-2-AMINOBENZOTHIAZOLE & PAA Order 70 dms (18,887 lbs) (Ming Universe) Busan, 7/3. ABS RESIN Goldmark Plastic Compounds 4,200 bgs

ABS NEXIN Goldmark Plestic Compounds 4,200 bgs (233,242 bs) (Ming Universe) Busan, 7/3.

ACETAM/NOPHEN Sterling Organics 243 dms (42,807 lbs) (Absnite Companio) Livorpool, 8/29.

ACETOACET-ORTHO-TOLUIDINE Leyden Customs Expediters 800 bgs (44,516 lbs) (American Maine) Kobe, 7/1.

ACETOPHENONE World D Barth 76 dms (37,254 lbs) (Evo

Lyrio) Rotterdam, 7/1. Order 74 dms (35,891 lbs) (Aldebaren) Folixatowe, 7/2 ACRYLAMIDE Mitrans 480 bgs (27,701 lbs) (Ming Uni-

verse) Kobe, 7/3. ACRYLONITRILE-BUTADIENE RUBBER Alba Fwdg 655

be (39,110 lbs) (Barber Tonsberg) Yokohuma. 7/7.
AGAR AGAR Altransport 40 dms (4,859 lbs) (Arnorican Lynx) Antwerp. 7/10.
ZINC BACITRACIN A L. Laboratories 1,600 bgs (82,082

be) (Stefan Starzynski) Bremorheven, 7/21.

ALKYL BULFONIC ACID Ploneer Plastics 4 dms (1,940)

ibs) (Dart Allantica) Bremarhavon, 7/1.
ALKYLAMINE DIMETHOXYETHYLAMINE Hande

Phoen's Transport 23 bri (0 lbs) (Sea Land Voya(lor Bremerhaven, 7/3, ALPHA-METHYLDOPA M G Transport Warehouse 60 dms (3,838 bb) (American Georgia) Rotterdam, 7 18.

Panalpina 60 dma (3,836 lbs) (American Lynx) Bromer

haven, 7/10. ALUMINUM OXIDE Lonza 23 plt (41,579 lbs) (Pilor

ALUMINUM OXIDE LOnza 23 plt (41,579 lbs) (Pilet)
Naples, 7/18.

ALUMINUM PASTE Synergistic Pigments 310 drns
(35,322 lbs) (Koin Express) Hemburg, 6/30.

AMINOETHYL PIPERAZINE Order 1 tnk (37,566 lbs) (TFL
Franklin) Rotterdam, 6/30.

AMMONIUM BIFLUORIDE Kall Chemie 860 pkg (46,547 lbs) (American Georgia) Bremerhaven, 7/18.

Order 128 dms (40,657 lbs) (dart Atlantica) Bremer-

ciras, 7/2.
CHLOROFLUOROANILINE Rhone Poulenc 1 dms (254 ibs) (Nadiloyd Rosario) Marseille, 7/6.
CHLOROOUINE DIPHOSPHATE Richard Boas 15 dms (1,799 lbs) (Koln Express) Hamburg, 8/30.
CIMETIDINE M G Transport Warehouse 78 dms (4,575 lbs) (American Georgia) Rotterdam, 7/18.
COPPER ACETATE Fracht Fwdg 50 dms (4,586 lbs) (Dart

Atlantica) Felixstowe, 7/1.
CROTONALDEHYDE Order 1 csk (414 lbs) (ever Lyric

Hamburg, 7/1.
GLYCERINE CRUDE Lever Brothers 126 dms (81,835

GLYCEHINE CRUDE Laver Broiners 128 oms (81,836 lbs) (Ever Guide) Singapore, 7/3.

Order of Shipper 1 bks (881,848 lbs) (Stoft Pride) Pt Kelang, 7/22.

CUPROUS THIOCYANATE Pluess Stauffer Intl 600 bgs (34,392 lbs) (Ever Lyrlo) Felixstowe, 7/1.

CYANAMER P 80 Order 112 mix (110,935 lbs) (Ever Lyrlo) Felixstowe, 7/1.

CYANONITROANILINE Janel Intl Fwdrs 189 dms (15,304 lbs) (Kolp Everse) Antworp, 8/30.

ius) (Koin Express) Antwerp, 8/30. DIACETYL BUTANEDIONE Pen American Contail dins (6,642 lbs) (Ever Lyric) Rotterdam, 7/1.
DIALLYL PHTHALATE Stoll Tank Containers 1

(35,582 ins) (Ming Universe) Kobe, 7/3. MINODIPHENYLMETHANE Ciba Gelgy 242 dms (42,628 ibs) (Atlantic Companio) Uverpool, 6/29. MMONIUM PHOSPHATE Lidoctiem 800 bgs (79,807

(110 lbs) (American Georgia) Rollerdam, 7/18 CALCIUM PHOSPHATE Order 800 bgb (41,358 lbs (Ever Lyric) Antwerp. 7/1
DICHLOROBENZOTRIFLUORIDE Order 1 tak (44.9)

Itis) (Koln Express) Brancittaver, 6/30 DICHLORODIFLUOROMETHANE Kall Chemio 1 fr (52,624 lbs) (Pilar) valencia, 7/18. DICYANDIAMIDE Jamos E Fox 810 bgs (40,767 lbs) (Eve

Lyric) Harnburg, 7/I DIETHYL PHTHALATE Order 78 dms (42,222 lbs) (Eve Summit) Genos. 7/2.
DIETHYLENET RIAMINE Trafpak 2 tnk (85,935 lbs) (Aldelsaran) Rotterdam, 7/2.
DIHYDROSTREPTOMYCIN Rhons Pauleno 383 ctr

(13,677 lbs) (Atlanik Song) Lo Havre, 7/1. DI-ISORUTYLENE Order of shipper 1 bks (1,543,234 lbs (Stolt Osproy) Rotterdam, 7/8. 1 bks (1,564,115 bs) (Stolt Pride) Yekohama, 7/22. DIMETHYL. FORMAMIDE Order 80 dms (37,390 b)

ibs) (Aldoharan) Antworp, 7/2. DIPROPYLENETRIAMINE Hanlel Phoenix Transport bri (0 lbs) (Soa Land Voyager) Bramerhaven, 7/3.

ENZYMES Novo Laboratories 422 dms (72,985 lbs) (A ENZYMES NOVO Laboratories 42 bits (* 2.55 bits) (* 1 lantic Companio) Gothanburg. 6/29.

EPSOM SALT Qualchom 4,000 bgs (403,530 lbs) (Ever Lyrio) Hamburg. 7/1.

ETHYL ACETATE Order of Shipper 1 bks (1,157,426 lbs)

(Stolt Pride) Kachelung, 7/22.
ETHYL ALUMINUM DICHLORIDE Sherex Chemicals 2
Ink (82,919 lbs) (Koh Express) Hamburg, 8/30.
ETHYL BROMOACETATE Ameribrom 20 dms (0 lbs) (Export Patriot) Halfa, 7/1. ETHYL CYANOACETATE Lonza 10 dms (4,980 lbs) (Kolr

ETHYLOTANUACETATE LOTER 1 CORRE (4,860 lbs) (ROM
Express) Bremerhsven, 6/30.
ETHYLENE CHLOROHYDRIN Fallek Chemical 62 dms
(38,272 lbs) (Ming Universe) Yokohama, 7/3.
ETHYLENEDIAMINE Order 2 thk (78,586 lbs) (TPL
Frankin) Rollardam, 6/30.
GLYCERINE Dermoo 64 pcs (39,386 lbs) (Sea Land Voyspecific Rollardam, 7/3.

eger) Rotterdam, 7/3. 3LYCIDYL METHACRYLATE Marubeni America 75 dms (37,699 lbs) (Ever Gulde) Osaka, 7/3. GLYCINE Order 150 dms (32,077 lbs) (McKinney Maerak) Tokyo, 7/3.
Tokyo, 7/3.
GUAR GUM POWDER Tio Gume 2,400 bge (121,800 ibs)
(Vishva Pankej) Kandie, 7/2.
H-ACID Orlex Chemicals 800 bgs (44,821 ibs) (EverGuide)

Hong Kong. 7/3.

Penson 840 bgs (30,239 lbs) (Yu He) Hong Kong. 7/2.

HIDE GLUE T D Downey 323 bgs (38,317 lbs) (American Maine) Kobe, 7/1.

Taub & Carmel 360 bgs (39,883 lbs) (Tuhobk) Koper.

E Crystal Chemicals & Supply 12 dms (699 lbs) HYDRAZINE Crystal Chemicals a coppy 14 directory (Koh Express) Greenock, 8/30. HYDROBROMIC ACID Ameribrom 177 dms (124,786 lbs) (Export Patriot) Helfa, 7/1. Trans World Shpg 144 dms (77,778 lbs) (Ming Universe)

Kobe, 7/3.
IYDROGEN PEROXIDE Penalpina 17 pkg (280 lbs (American Lynx) Bremerhaven, 7/10. HYDROQUINONE Mitsul 896 bgs (85,844 lbs) (Ming Uni-

HYDROQUINONE Mitsul 898 bgs (85,844 bb) (Wat) verse) Kobe, 7/3.

HYDROXYQUINOLINE Meag Agrochemicals 210 dms (24,676 bb) (Aidebaran) Le Havre, 7/2.

[NOSITOL Ameligamated Metal 80 dms (5,467 bb) (Yu He) Shanghal, 7/2.

Universel Transcontinental 40 dms (4,850 bb) (Ming Universe) Kobe, 7/3.

INBULIN ER SQLADE & Bons 19 pt (25,139 lbs) (Atlantic Companio) Gothenburg, 7/29.

IRISH MOSS Pel Sasweed 1,025 bgs (45,000 kbs) (Atlantic Companio) Hallay, 6/29.

IRION BLUE PIGMENT Daintchlastic Color & Chemic 800 bgs (41,446 lbs) (Ming Universe) Yokohems, 7/3.

RON LEAD NITRATE ICD Group 333 dms (39,644 lbs) (Yu He) Shanghel, 7/2. IRON OXIDE Roshilg Fwdg 720 bgs (40,080 lbs) (Aldebs-

Trans World Shop 720 bgs (40,741 lbs) (Sea Land Voyager) Rotterdam, 7/3. 720 bgs (40,543 lbs) (Stefan Starzynski) Rotterdam, 7/21.

7/21.

IRON PYRITE RED Washington Mills Abrasives 198 dms (41,336 lbs) (Ever Summit) Leghom, 7/2.

ISOCYANURIC ACID Atlas Intermodal Transport 360 dms (43,334 lbs) (Ming Universe) Keslung, 7/3.

Order 168 csk (72,657 lbs) (Ever Lyric) Rottsrdam, 7/1.

ISOPHTHALIC ACID McCloskey Vamish 20 bbg (40,741 lbs) (Ever Summit) Genoa, 7/2.

Slass 1,400 bgs (79,255 lbs) (Ever Summit) Genoa, 7/2.

ISOPHYTOL Order 1 trik (35,759 lbs) (Atlantic Song) Rotterdam, 7/1.

terdam, 7/1. ISOPROPANOL Order of Shipper 1 bks (2,248,712 lbe) (Stoll Ospray) Rotterdam, 7/8. L-CYSTEINE Angel Products 20 dms (2,381 lbs) (Ming

Universe) Kobs, 7/3. L-GLUTAMINE Uti Lines 10 dms (1,235 lbs) (Ever Lyric) Hamburg, 7/1. L-METHIONINE Kyowa Hakko 70 dms (8,664 lbs) (McKin-

L-METHIONINE Kyowa Hakko 70 dms (8,864 lbs) (McKin-nsy Maersk) Kobe, 7/3.

L-SERINE Kyowa Hakko 104 pkg (10,900 lbs) (McKinney Maersk) Kobe, 7/3.

LACTIC CASEIN New Zealand Milk Products 1,800 bgs (100,794 lbs) (Columbus Australi) Wellington, 7/2.

LAURIC ACID Robeco Chemicals 720 bgs (40,792 lbs) (Sea Land Voyager) Rotterdam, 7/3.

LEAD NITRATE Arial Maritime Group 38 dms (7,818 lbs) (Koln Express) Antwerp, 6/30.

(Koin Express) Antwerp, 8/30. LEMON OIL Citrus & Allied Essences 36 dms (15,448 lbs) (Rio Esquel) Buenos Aires, 7/1. Fritzsche Dodge & Oicott 10 dms (0 lbs) (Export Patriot)

Genoa, 7/1. LIME OIL Order 10 dms (4,409 lbs) (Sebogal) Callao, 7/11. LINALOOL Order 79 dms (33,614 lbs) (Atlantic Song) Rotterdam, 7/1. LITHOPONE Ore & Chemical 707 bgs (39,700 lbs) (Ever

Lyric) Antwerp, 7/1. LITSEA CUBEBA OIL Order 80 dms (34,921 lbs) (Yu He Shanghai, 7/2. LOCUST BEAN GUM Pearson Intil 16 pit (0 lbs) (Sea Land

Adventur) Algedras, 7/2. Celanese 800 bgs (44,798 lbs) (Sea Land Adventur Algedras, 7/2.

M-CHLOROANILINE Janel Intl Fwdrs 40 dms (23,986 lbs) (Koln Express) Antwerp, 6/30. M-CRESYL_GLYCIDYL_ETHER_Alba_Fwdg_98 pkg (23,648 lbs) (Ever Guide) Osaka, 7/3.

MAGNESIUM CARBONATE ACS Chemicals 567 bga (24,707 lbs) (Aldebaran) Bremen, 7/2.

Uti Linos 150 bga (13,360 lbs) (Ever Lyric) Hamburg.

7/1 AAGNESIUM OXIDE Roussel 682 drns (78,810 lbs) (Ming Universe) Kobe, 7/3 MALEIC ANHYDRIDEL (Miljac 720 bgs (40,961 lbs) (Koln Express) Rottordam, 6/30, MALONIC ACID Lenza 19 dms (2,262 lbs) (Koln Express)

Bromorhavon, 6/30.
METHYL CEDRYL KETONE Felton Intil 12 dms (1,482 lbs)

(Yu He) Shanghai, 7/2. METHYL METHACHYLATE Order 1 tnk (35,759 lbs) (Ever

METHYL METHACHYLATE Order 1 thr (33,736 bs) (Even Lyric) Felixatows, 7/1.

METHYLCELLULOSE Henkel 220 bgs (11,204 ibs) (Stelan Starzynski) Rotterdam, 7/21.

METHYLENE CHLORIDE Order of Shipper 1 bks (1,123,923 ibs) (Stoti Pride) Rotterdam, 7/22.

METHYLPENTENE POLYMER Mitsul 40 bbg (45,415 ibs) (American Maine) Kobe, 7/1.

MILORI BLUE Reveil Chemicals 300 dms (16,866 ibe) (Yu

MILOHI BILUE Hevelli Chemicais 300 oms (16,865 lbs) (YU He) Shanghai, 7/2. MINERAL WAX Strohmeyer & Aarpe 882 bgs (89,740 lbs) (Ever Lyric) Hamburg, 7/1. MONOCHLORACETIC ACID Order 201 dms (44,312 lbs)

MONOCHLUNACE II G. ACID Order 201 Girls (44... 12 lbs)
(Atlantic Companio) Gothenburg, 6/29.
MONOSODIUM GLUTAMATE Allnomoto 720 dms
(78,001 lbs) (Holstenseilor) Santos, 7/1.
MUSK ASBRETTE Order 270 dms (32,024 lbs) (American Maine) Kobe, 7/1. AYRISTICA OIL F W Myars 1 dms (428 lbs) (Columbus

Australi) Sydney, 7/2. I-BUTYL METHACRYLATE Order 2 tnk (79,299 lbs) (Ever Lyrie) Felixslows, 7/1. BUTYLISOCYANATE Janel Inil Fwdra 32 dms (14,803)

BUTYLISGCYANATE Janel Init Fwdre 32 dms (14,803 lbs) (Koin Express) Antwerp, 6/30.

ARBOXYMETHYLCELLULOSE BOOIUM American imports Service 42 bgs (2,438 lbs) (American Lynx) Hollerdam, 7/10.

APHTHALENE Tall Tal imports 22 ctn (607 lbs) (McKinney Masrak) Hong Kong, 7/3.

APHTHOL ACID Montedison 36 bbg (41,427 lbs) (McKindloyd) Rosario) Marselle, 7/8.

APHTHOL AS Order 200 dms (12,787 lbs) (Yu He) Sharpell, 7/2.

Shanghel, 7/2. SODIUM METHYLATE Key Fries 182 pkg (38,457 lbs) (Stefan Starzynski) Bremerhavan, 7/21. NIACIN Lonza 600 dms (72,752 lbs) (Koin Express) Bre-

merhaven, 7/30. CINAMIDE Lonza 300 cime (36,715 lbs) (Koln Express Bremensven, 6/90. Reliy Tar & Chemical 800 bgs (44,621 [bs) (Koln Ex-

Reity Ter & Chemical 20 big (39,242 ibs) (Koin Express) Antwerp, 6/30.
Reity Ter & Chemical 20 big (39,242 ibs) (Koin Express) Antwerp, 6/30.
NITROCELLULOSE Fayerte Chemical 112 dms (40,831 bis) (Hannoverland) Liebon, 7/11.
NORMAL PARAFFINS Order of Shipper 1 bks (1,135,379 be) (Stoit Osprey) Antwerp, 7/8.

O-DIANIBIDINE Berno Stope 190 drue (31,519 lbs) (Ming Universe) Kobe, 7/3. O-XYLENE Order of Shipper 1 bks (2,204,620 lbs) (Stolt

Osprey) Rotterdem, 7/8.
ORTHO-DIANISIDINE DIHYDROCHLORIDE Berno Shpg
180 dms (31,515 lbs) (Ming Universe) Kobe, 7/3.
ORTHO-TOLYLBIGUANIDE Leyden Customs Expections
25 dms (3,197 lbs) (American Georgia) Felbastows,
7/18.
OSSEIN Order 1,125 bgs (101,441 lbs) (American Maine) Khor Fakken, 7/1. (ALIC ACID Altence Shipg 2,280 bgs (115,141 lbs) (Yu

He) Heinkang, 7/2. Browning Chemical 2,316 bgs (117,436 lbs) (Yu He) Shanghai, 7/2 paniel F Young 1,400 bgs (77,934 lbs) (Yu He) Shang-hai, 7/2. (CG ind 1,350 bgs (75,856 lbs) (American Maine) Kobs,

7/1
Inter Maritims Fwdg 1,400 bgs (77,934 8e) (Yu He)
Sharighal, 7/2
Mileut 2,516 bbg (117,436 bb) (Yu He) Sharighal, 7/2
Mileut 2,516 bbg (117,436 bb) (Yu He) Sharighal, 7/2
Sharighal, 7/2

XYTETRACYCLINE BASE Leschaco 400 kga (24,692 be) (Yu He) Hong Kong, 7/2.

OXYTETRACYCUNE HYDROCHLORIDE Leyden Custome Expeditors 80 dms (4,409 lbs) (Rijeka Express)
Rijeka, 8/29.

Order 35 dms (3,488 lbs) (American Ohio) Felixstows, 7/3. YDROXYBENZOIC ACID Janel Inti Fwdrs 600 bgs

(34,304 lbs) (Koin Express) Antwerp, 6/30.
Order 16 dms (3,704 lbs) (Ever Lyrio) Hamburg, 7/1.
c-NITROBENZOIC Nobel Chemicals 24 pit (41,482 lbs) (American Lyrix) Bremerhaven, 7/10.
c-TOLUENE SULFONYL CHLORIDE RIY Chemical 80 dring (32,099 bb) (Ming Universe) Yokohams, 7/3.
PARA-AMINOBENZOIC ACID Roussel Pharmaceutical
Produ 80 dring (9,736 be) (Ever Lyric) Hamburg, 7/1.
PARA-CRESIDINE SULFONIC ACID Order 76 dms

(20,811 bs) (Ming Universe) Kobs, 7/3.

*ARA-TOLUENE SULFONYL CHLORIDE Equa Freight
Systems 25 drns (5,291 bs) (Dart Atlantics)
Antwerp, 7/1.

*PARACETAMOL Universel Transcontinental 380 dms (0 ibs) (Yu He) Heinkeng, 7/2. Karl Schroff 80 dms (5,115 lbs) (American Maine) Kobe,

7/1.
PARAFORMALDEHYDE T R America Chemicals 44 bbg (94,675 ibs) (Sea Land Adventur) Algedras, 7/2.
720 bgs (41,032 ibs) (American Ohio) Zeebrugge, 7/3.
PARAMONOCHLOROPHENOL Ringer Poulenc 67 dms (40,029 bs) (Nedloyd Rosario) Mareelle, 7/6. PHENYLMERCURY ACETATE Roshiig Fwdg 100 dms (12,126 bs) (Phar) Barcelone, 7/18. PHENYLMETHYL PYRAZOLONE Lonza 120 bgs (5,688

ibs) (Kom Express) Bramerhaven, 6/30. PHOSPHOROUS PENTOXIDE M G Transport Ware-house 17 bxs (628 lbs) (American Georgia) Rotter-

PENTONIOUS PENTOXIDE M G Transport Warehouse 17 bxs (628 bs) (American Georgia) Rotterdam, 7/18.

POLYAMIDE POWDER Jacky Maeder 3 pit (0 ibe) (Koin Express) Bremerhaven, 6/30.

TCI Cerriers 4 pkg (0 libs) (Atlantic Song) Le Havre, 7/1.
POLYBUTENE B P Performance Polymers 156 dms (64,657 ibs) (Neddiloyd Rosario) Marsellie, 7/6.

POLYETHYLENE Jacky Maeder 1 pit (0 ibs) (Koin Express) Bremerhaven, 6/30.

Boxel 2 pbx (220 ibs) (Koin Express) Rotterdam, 6/30.

POLYTETHAFLUOROETHYLENE Montedison 205 dms (13,636 ibs) (Tuh)obio) Genos, 7/3.

POLYURETHANE RESIN Delinkhiselke Golor & Chemio 2 dms (891 ibs) (McKinney Maersk) Tokyo, 7/3.

POLYUNYL CHLORIDE T R America Chemicale 792 bgs (45,194 ibs) (Atlentic Companio) Gotherburg, 6/29.

Tarkett 759 bgs (43,431 ibs) (Ever Lyric) Hemburg, 7/1.

POTASSIUM BICHROMATE American Chrome & Chemical 400 bgs (45,309 ibs) (American Georgia) Gelixetows, 7/18.

POTASSIUM CARBONATE Dah Chong Hong Trdg 100 ctn (0 ibs) (Yu He) Hong Kong, 7/2.

POTASSIUM CHLORATE T R America Chemicale 152 dms (45,589 ibs) (Sea Land Adventur) Algociras.

dms (45,589 lbs) (Sea Land Adventur) Algodras, 7/2. POTASSIUM FERFICYANIDE Order 330 dms (36,813 iba) (Yu He) Darion, 7/2 POTASSIUM METABISULFITE Rivona Poulone 350 bgs

(39,954 lbs) (Ever Lyric) Antwerp, 7/1.
POTASSIUM NITRATE Browning Chemical 360 bgs
(40,318 lbs) (Stefan Starzynski) Bramerhoven, 7/21. (40,318 lbs) (Stefan Starzynski) Bramerhoven, 7/21.
POTASSIUM PERMANGANATE American Inti Chemical
340 dms (43,177 lbs) (Hannoverland) Billbao, 7/11.
PROPYLENE GLYCOL Order of Shipper 1 bks (1,157,501 lbs) (Stell Pride) Rotterdam, 7/22.

S-T SACCHARIN, SODIUM F & S Alloys & Minerals 320 dms (38,096 lbs) (American Maine) Hong Kong, 7/1. SALICILAM/DE Laboratorios Alfa 6 dms (0 lbs) (Sea Land Voyager) Eremerhaven, 7/3. SALICYLIC ACID Rhone Poulenc 720 ska (41,349 lbs)

SALICYLIC ACID Hnone Polleno 720 ske (41,348 bbs)
(Neditoyd Roserio) Mersellie, 7/8.
Rhone Poulenc 180 dms (43,380 lbs) (Alva Meersk)
Marsellie, 7/2.
SEBACIC ACID Fellek Chemical 1,200 bgs (88,932 lbs)
(American Maine) Kobe, 7/1.
1,200 bgs (88,933 lbs) (Yu He) Shanghal, 7/2.
SODIUM ALGINATE Kelco 3 pbs (2,284 lbs) (Atlantic

Companio) Liverpool, 6/29. Meadows Wys 800 sks (41,760 lbs) (American Lynx) Bremeriaven, 7/10.

80DIUM CARBOXYMETHYL CELLULOSE Union Star Line 200 bgs (10,826 ba) (Bakkafoss) Rotterdam, 6/29.

80DIUM CITRATE Order 400 bgs (41,226 ba) (Alder-

BODIUM CITRATE Order 400 bgs (41,226 bs) (Aderbaran) Antwerp, 7/2.
Order 400 bgs (41,226 bs) (Ever Lyrio) Antwerp, 7/1.
SODIUM CYANIDE MTC America 178 dms (43,951 bs) (Ming Universe) Yokohma, 7/3.
SODIUM DISULFITE Crescent Chemicals 8 bxs (293 bs) (Koln Exprese) Bramerhaven, 8/30.
SODIUM ERYTHORBATE PMP Farmerhation Products 763 mix (40,179 bs) (Ming Universe) Kobs, 7/3.
SODIUM FERROCYANIDE Degussa 160 dms (87,139 bs) (Koln Exprese) Antwerp, 8/30.
SODIUM GLUCONATE Akzo Chemical 4 bgs (0 bs) (Ever Lyrio) Rotterdam, 7/1.

| SODIUM GLUCONA | E. AKZO CHRINGER & DIJE (0 to 5) (EVET LYRIO) Rotterdam, 7/1.

SODIUM HEXAMETAPHOSPHATE Order 16 bbg (35,468 Be) (American Maine) Kobe, 7/1.

SODIUM HYDROGEN SULFATE Crescent Chemicals 18 SODIUM HYDROGEN SULFATE Crescent Chemicals 18 bxs (884 ba) (Koin Express) Bremerhaven, 6)30.
SODIUM METABISULFITE Browning Chemical 780 bgs (43,983 lba) (Tunoblo) Genoa, 7/3.
SODIUM METAPERIODATE Oxidising Materials 10 dms (1,124 bs) (Carl Atlantica) Felixalowe, 7/1.
SODIUM NITRITE Crystal Chemical & Supply 18 dms (1,087 lba) (Koin Express) Greencok, 6/30.
SODIUM PERBORATE FMC 1280 bgs (74,285 lbs) (Ever Sammit) Valenica, 7/2.

SODIUM PERSONATE PMC 1220 bgs (74,200 lbs) (44,200 lbs) (44,200 lbs) (50,218 lbs) (50,218 lbs) (MoKinney Maersk) Tokyo, 7/3, pegussa 720 lbgs (39,841 lbs) (Allantio Song) Bremerhaven; 7/1.

SODIUM SALICYLATE Leyden Customs Expediters 200 lbs; (13,228 lbs) (American Meinst Kobe, 7/1.

dms (13,228 lbs) (American Maine) Kobe, 7/1. SODIUM SILICOFLUORIDE Alpao Marketing Service

SODIUM SULFATE Blud Anchor 14 bgs (1,709 bs) (Ste-fan Starzynski) Bremerhaven, 7/21. STRONTIUM CARBONATE Kall Chemie 720 bgs (40,159.

STRONTIUM CARBONATE Kall Chemie 720 bgs (40,159)
bs) (Koln Express) Bremerhaven, 6/50.

8ULFAMÉRA ZINE Universal Transcontinental 59 dms (0)
bs) (Yu He) Heinkeng, 7/2.
AJ Murray 180 dms (19,577 ibs) (Tuhoble) Rijeka, 7/3.
American Sings 320 dms (35,274 ibs) (Rijeka Express)
Rijeka, 6/29.
Universal Transcontinental 320 dms (35,274 ibs) (Rijeka
Express) Rijeka, 6/29.
140 dms (18,210 ibs) (Ever Guide) Hong Kong, 7/3.
8ULFAMÉTHOXAZOLE Laboratorios Alfs 8 dms (0 ibs)
(See Lend Voyages) Bremerhaven, 7/3.
Order 61 dms (5,379 ibs) (Rijeka Express) Rijeka, 6/29.
Gyms, Laboratories 14 dms (1,404 ibs) (Rijeka Express)
Rijeka, 6/29.
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CHEMICAL MARKETING REPORTER August 18, 1986

CHEMICAL MARKETING REPORTER

August 18, 1986

CHEMICAL PRICES

WEEK ENDING AUGUST 15, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All matters under this heading are fully covered by copyright.

An index of weekly chemical market reports is on the back cover.

—			Alumina, activated, gran., 100-lb. bgs.,	
			40,000-lb. min. c.l., works. ton 821.00	
· /			calcined, bulk, same basis ton 354.00	
			100-ib. bgs., same basis ton 380.00 hydrated, white, bulk, same ba-	
			ais	
			100-lb. bgs., same basis ton 224:00	
Abies siberica oil, cns	15.00		Aluminum acetate, basic, dms., l.c.l.,	
Acetaldehyde, 99%, tanks, frt. alki. lb.	.37	Ξ	works	
Prices 1c. higher in West.	.07	_	Atuminum chloride, arrhyd., soln., 500-	
Acetaminophen (see N-Acetyt-p-emthophe	noi)		600 lb. dms., c.l., t.l., works, frt. equald	
Acetanade, tech, flaked, bgs, t.l., f.o.b.			bulk, same basis	
works	1.29	-	semi-bulk bins, same basis ib	
Acetic acid, tech., tanks, divd. E lb.	-25	-	Aluminum chloride, comi., scin., 32°	
Acetic anhydride, tanks, divd. E lb.	.431/2	-	tanks, works 100 lbs. 15.00	
Acetic anhydride prices 1 c. higher in Wes	IL 00		ret. dms., c.l., works 100 lbs. 12.00 non-ret. dms., seme basis . 100 lbs. 20.00	
Acetoacetanfilde, dms., t.J., divd b.	1.29	-	non-ret, drns., same basis . 100 lbs. 20,00	
Acetoacet-o-anisidide, dms., t.i., dwdb.	2.70	_	Aluminum formate, dibasic, liq. 8%	
Acetoscet-o-chlorosnifide, dma., t.l.,	2.70	-	Al ₂ O ₃ t.l., works lb	
GNG	2.85	-	Aluminum hydrate (see Alumina, hydrated)	
Acetoscet-o-totuldide, dms., t.l.,			Aluminum hydroxide, dried, gel, NF, 76-lb dras., c.l., t.l., works. lb. 2.75	7
divdb.	1.58	-	Aluminum metal, 991/2% or more, 50-lb.	۰
Acetoacet-m-xylidide, dms., t.i.,			pigs., 30,000-ib. lots, frt.	
divdb.	3.33	-	alid	
Acetone, tanks, dvd. E	.25	-	Aluminum oxide amorphous (see Alumina, calcined).	
divd. Zone 2 (Calif.)	.27	-	Aluminum paste, lealing grade,	
Ing Calil.)b.	.27	_	atd.,lining, 2,400 lb. lots,	
Acetoritrie, tanks, frt alld b.	.53	.541/2	divd	
Acetophenetichn (see Phanacetin).			lining, extra-fine, same basis lb. 1.99 Aluminum phenoisulfonate, purif., 100-	-
Acetophenone, tech., tanks, f.o.b.			kilo dms., t.l kilo 6.46	
works b.	.76	.85	Aluminum powder, leafing grade, std.	
perfume grade, extra, cns	2.15	-	lining, 2,400 lb, fols, dlvd lb. 3,17	
N-Acetyl-p-aminophenol, c.f., t.l	6.00	0.64	extra fine, lining, same basis lb. 4 04	
workskio Acetylene black, imp., 50% com-	6.95	6.64	Aluminum stearate, bos., c.l b. 1.25	1
pressed, 12½-lb, bas, c.i., t.i.			Aluminum sulfate, comi., grd., 100 lb.	
ITT. 0X178b.	.96	_	bgs., c.l., works, irt. equald.	
100%. 25-lb. bgs., same ba-			basis 17% Al ₂ O ₃ East and Gulf Coasts ton 185.00	
\$/\$ R).	.9672	-	West Coast ton 185.00	
Acetylene tetrabromide, tanks, (o.b.			Iq., tanks, N.E. same basis ton 145.00	
works	.97	-	iron-free, dry, bgs., c.l. same	
Acetylinbutyl citrate, bulk, 1.0.b.			I Dasts	
worksb	1.28	_	Bq., tanks, same basis ton 225.00 2	6
Acetyltriethyl clirate, bulk, f.o.b.	•		Aluminum sulfate, USP, gran., dms. lb3 Aminoacetic acid, USP, dms., 20,000	J
worksb.	2.06	-	los., f.o.b. works	
Acrolein, tech., tanks, works b.	.62	-	tech., t.l., same basis	
Acrylamide, solid, t.l. works b.	1.00	-	p-Aminobanzoic acid, 1,000 kilos or	
soin., 100% basis tanks, works ib. Acrylic acid. glacial. reg., tanks,	.74	.77	more, dms., (.o.b. works , kilo 9.60)	1
dlvdb.	.67	_	2-Amino-4-chlorophenol dry and grd.,	
tech., tenks, irt. alid	.60	_	14,000 lbs. or more, frt. elid. lb. 5.79	
ACCYONICION LAINKS, Works,	.3914	.451/2	Aminosthyl ethanolamine, tanks, frt.	
Acrylonitrie-butadiene-styrene resin.			N-Aminoethyl giperazine, tanks, f.o.b.,	
high-impact, nat., t.l., dms., divdb.	1.00	4 40	frt. collect	
medium-impact, nat., same basis ib.	1.09 1.05	1.12 1.0B	2-Amino-2-ethyl-1,3-propanediol	
low-impact, nat., same basis ib.	-98	1.01	dms., t.l. f.a.b. works lb. 1.82	
Acupic acio, resin grade, bulk, hopper				
CATE IT BOUND!	.57	-		_
bgs., t.l., c l. frt. equatdb. Agar USP, powd., 80 to 100 mash.,	.59	-	The state of the s	,
when one ' hours' on to lon while'	9.50	0.05		E
dmsb. Alcohol, syn. C-8 to C-10, tanks, i.o.b.	a .30	9.85	THE P P P P P P	ı
worksib.	.38			۱
C-12 to C-13, lanks, divd b.	.57	.59		٦
C-14 to C-15, tanks, divd lb.	.57	-	I I I I I I I I I I I I I I I I I I I	
C-16 to C-18, tanks, divd b. Aldehyde, C-8, dms	.60	-		
C-7, dmsb.	· 4.10 1.95	5.70	THE TERMINOLOGY OF THE	C
C-8, dmsb.	4.30	6.30		-
G-10 dms	4.30	5.35	a/aipha o co	
Algin (see Socium alginate.)			alid,/allowed C./Centrigrade cbys./carboys	
Alkali blue, dry, flushed, 110-lb. dms,			amorph./amorphous c.o./cubic centil AMP/American melting CD/completely.	
civdb.	3.72	3.83	AMP/American melting CD/completely	ď
Alkeli blue prices to higher W. of Rockies.			point suhyd./anhydrous atured	-
Alispice Guatemalan / Honduran,),
bgsb.	.80	· _	LE CITICIE Acelerikus ."'Y'a'''	
Jamaican, bosb.	1.05	-	Chemista	
Allyl alcohol, lanks, I o.b., Bayport,			Ap.s./svaliable phos- phoric said comi./commerc	-1
Tex	.90	-	P110110 8410 00-0 1-0	n
Allyl bromide, 500 kilo drns. 2,000 lbs. or more, works	5.50	_	ertif /artificial cp/chemically i	ρl
Allyl caprogle, 25-tb. cns b.	3.90	4.50	I AXTM/American Cont. VPO-/CONGROSS	1
Allyi choride, tanks, f.o.b. works ib.	.65	7.00	ety for Testing & Cryst/orystallin	H
Allyl isothiocyanato, botslb.	5.40	6.90	Materials Car/Custa	
Ahnond oil, artil., bitter (see Benzaldeh)	(de.)	•	etns./cartena cyls./cylinders	
Almond oil, net. bitter, NF 1.f.p.a.			b/beta	J
bots	3.50 1.24	3.60	Ballo	
sweet	2.00	1.50	his discounts	
powd., csib.	2.25	. 2.75	b.g./beta-gamma denat./denatu	
Curacao, kgs lb.	2.60	. 2.70	bgs./bags destdist./des	ŕ
powd., kgs	2.60 3.00	_	. The state of the	K
Alon, NF, dms	6.00	6.70	di/dextro-leev	Ó
Afum, emmontum, tech. gran., bgs.,	GC AR		b.p./boding point dist./distilled b.p.l./bone phosphate dist./distribut	
c.i., t.i., works 100 fb. FCC powd., liber dms., works 100 bs.	35.00 55.00	· · -	i Of lime divid bigliums	۰
. FOU PONU., INSI VIIIS., MURS IVVIA.	80.44	-	b.t./holling range divd./gellyere	ď

	C.I., f.o.b. works 100ibs	28.60	-
1	Ammoniac sal. white (see Ammonium chk		
1	Ammonium biborate, gran., dms., c.i.	00	
1	workslb. Ammonium biborate powder 15c. per lb.	.90 Nober	-
ı	Ammonium bicarbonate, 300-ib. lib.	rugi kor.	
	dms. c.l. works 100 lbs.	26.00	-
	bgs., c.l 100 lbs.	25.00	-
	Ammonium bichromate, photo-ilino		
	grade, gran. 100-lb. dms., l.t.i.	2.00	_
	works	4.00	_
	works	.70	-
	Ammonium bromide, dom. NF, gran.,	4.04	
_	dms., c.i., t.i., f.o.b. works . lb.	1.31	-
_	Ammonium chioride, white, tech., fine gran., bgs., c.l.,		
-	works100lbs.	18.00	-
	USP, gren., ams,	.40	.53
	Ammonium citrate, dibasic, 250-ib.	0.70	
	dms. f.o.b. workslb.	2.79	-
	Ammonium dimolybdate, approx. 85%, 24,000 lbs. or more . lb.	5.48	_
	Ammonium fluoborate, tech., dms.,		
	c.i., t.i., works, frt. equald lb.	1.79	-
	Ammonium heptamolybdate, cryst		
	dms., 24,000 lbs. 1.o.b. workslb.	5 57	_
	Ammonium lauryi suifate, tanks, f.o.b.	3 31	_
2	workslb.	.29	.32
•	Ammonium lignin, sulfonate, bulk,		
	f.o.b. Floquiam, Ore ton	72 00	-
	Ammonium nitrate, dom., fertilizer grade, 33.5% N, bulk, S.E.		
	divdton	130.00	135.00
	Ammonium oxelate, tech., fine, gran.		
	300-lb. dms., t.l., f.o.b.		
	works	1.42	1.68
	Ammonium pentaborate gran. bgs., c.l., worksb.	.75	_
	Ammonium pentaborate powder 20c.	.,,	_
	per lb. higher.		
	Ammonium persulfate, 225-lb. dms,		
	24,000 lbs. or more, f.o.b.	EO	
	worksib. 55-lb. bgs., same basis ib.	.58 .56½	-
	Ammonium phosphate (see Di- and m		nium phos-
	phates).		•
	Ammonium silicolluoride, dms. c.l., t.l.,	2014	
	worksib. Ammonium sulfate, ig. gran bulk, c.i.,	.30%	-
	workston	80.00	90.00
	workston std., coml., bulk, f.o.b. works ton	60.00	70.00
	tech., bgs., c.l., t.l., works ton	108.00	120.00
	Ammonium sulfide, liq., 40-44% tanks, 100% basis, frt. equald, .ton.	460.00	
	Ammonium sulfocyanide, tech. (see Am		OCVERNATO)
	Ammonium thiocyanate, tech., cryst		
	bos., c.l., works	1.02	-
	tech soin., 60%, tanks, frt.	00	
	equald.,	.93	-
l	Ammonlum thiosulfate, photographic, 60%, tanks, i.o.b. works ib.	.13	
	Ammonium zirconyl carbonato, soin.		
	bulklb	.72	-
	Arriyî acetate, primary mixed isomors.	67	
	lanks, dvd ib. Amyl alcohol, primary mixed isomers,	.57	-
	tanks, frt. alld 1b.	.461/2	-
	1 Amyl Christinic Bigahyda, dms lb.	2.36	2.60
	p-tert-Amylphenol, bulk, works lb	.91	1.03
	Armyria oli, dimaib. Anethole, tech., dmskilo	11.50 10.20	12.25
	LICO des	3.65	4.60
	uar, ems		
	USP, dms	700.00	-
	Angelica root oil, botskilo	.33	.35%
	Angelica root oil, botskijo		.35%
	Angelica root oil, botskilo	.33	.35%
	Angelica root oil, botskilo	.33	.35%

گدیب:نبطال <u>ی: نامی به نید</u>						_
-methyl-1-propanol, 95%.			Anso seed, Egypt bgs		.63	
ns., c.l., l.l., l.o.b. works . lb.	.95	-	Spanish, bgs Turkish, bgs	Uh.	.90	-
o.b. works	.89		Tulnian Inja	ID. Ib	.80	85
ienol, dms., f.o.b. Charlotte, C	3 95	- '	Anisic aidehyde, cus, dins . o-Anisidano, imp . dins , divd	. IБ.	4.80 2.27	5.40
phenol, t.l. dms., f.o.b.			l p-Anisiaina, imp., cast solid, dr	ng.		-
eleigh, N.C kilo	7.15	-	works. Nakos, same basis	. U). Ib	1.90	-
alicylic acid, USP, 50-kilo ns., t.l	18 50	_ !	Animanicacid puril 99° min dr	ng	2.25	-
anhyd., fertillzer, wholeselo,			[11, frt alkd	. lb	1.70	-
rika, divd. Midwest termi-		170.00	Antimony flughorato, Eq. conc., 17: dms., t.E., works)-ID.	3.02	
ds ton	165.00 80.00	170.00 85.00	Antinksiy motal bulk, cl., mines	.lb	1.35	1.39
ara, f.o.b. Gulf Coast ton a, 29,4% NH ₃ , anhyd, basis,	30.00	00.00	Antoniony oxide, high-lint, bgs , c l	. frt.		1.43
inks, irt. equald. E. of Rock-	0.00 00	D.E. 66	alid. E. of Acchies Antimony trichloride, anhyd , si	. ID. olid	1.40	1.50
9 ton	260 00	315.00	dms . L1 works	.1b	3.60	
cal liquor (see Ammonia, aqueo: ceal, galvanizing grade, bgs .	u3).		Apomerphino hydrochloide, NF, b	ots .		-
l., f.o.b. works 100/bs	28.60		Apricot kernel nil, drns	_ ih	15.00 2.05	•
c sal. white (see Ammonium chk	arida com	l).	Arabic gum, powd , bbls	.lb.	1.85	2.15
m biborate, gran., dms., c.l. orksb.	.90	_	sprny dried USP grado	.Ib.	2.00	2.50
ım biborate powder 15c. per lb.			Aromatic petroloum solvents	10. (800)	6.75 Solvent, r	925 Tanhib
m bicarbonate, 300-lb. lib.			panoralini, aramaaci			-ahiii iii
ms., c.l., works 100 lbs. 	26.00 25.00	-	Arsonic, crirde (see Arsonious trea Arylid, red (see Napthe), arylid red			
m bichromate, photo-litho	_3.50		Arsenious trioxide, 99°5, bulk,			
rade, gran. 100-lb. dms., l.t.l.			f o b. warehouse		.42	45
orks	2.00	-	Asbestino (see Talc. librous) Ascorbic noid, USP, 100 ki	line		-
orkslb.	.70	-	divd		9.00	10.50
m bromide, dom. NF, gran.,			Ash, black (see Banum sulfide).			
ms., c.1., t.1., f.o.b. works . lb.	1.31	-	Asphalt gilsonite, (see Gilsonite) Asphalt potrotoum cutback tank	- F		
m chloride, white, tech., ne gran., bgs., c.l.,			Asphalt petroleum cutback, tank Coasi		-88	_
/orks100lbs.	18.00		emulsion, tanks, tankwagon	s, E.		
ren., cims, lb.	.40	.53	Coast. steam-rolined, 40-300 penetra	. gal.	.68	-
m citrate, dibasic, 250-ib. ms. f.o.b. worksib.	2.79	_	tanks, tankwagon	ton	170.00	-
um dimolybdate, approx.	2.70		steep roofing grade, bulk tankw	øg-		
5%, 24,000 lbs. ar more lb.	5.48	-	on Aspirin, USP, cryst., powd.,	. 10N 250	175.00	-
m fluoborate, tech., dms.,	1.79	_	Ib dms , c l , f.o b	lb.	1.95	-
.l., t.l., works, frt. equald lb. m heptamolybdate, cryst.	1./9	-	10% starch granulation, white,	250.		
ms., 24,000 lbs. 1.o.b.			ib dm, c.l., f.o b	lb same	1.97	•
vorkalb	5 57	-	basis		2.80	
m lauryi sulfate, tanks, f.o.b. /orksb.	.29	.32	Freight equald shipt identical of	quantity	over sinds	ಡಬಳಿಸ
ım lignin, sulfonate, bulk,			from N.Y., Phila., Midla Louis	nu, Mi	Ģri., Griαg	.
o.b. Hoquiam, Ore ton	72 00	-	Atropine sulfate, USP, bots.	02	10 00	11,00
m nitrate, dom., fertilizer rade, 33.5% N, bulk, S.E.			Avocado oil, drus	lb cl	4.00	450
lvd ton	130.00	135.00	Azelaic acid, tech . 50-lb, bgs . t l divd	.cı,	1.23	-
m oxalate, tech., fine, gran.			Azo orange bbis divil	lb	4.60	-
100-lb. dms., t.1., f.o.b. vorks	1.42	1.68	Azo yellow, 10 G. bas . divd	E of	4.40	_
ım pentaborate gran. bgs.			Rockies Azo G yellow pigment, bgs , same	ıba-	7.40	_
.l. worksib.	.75	-	sis .	lb	2.45	
um pentaborate powder 20c. ser lb. higher.						
ım persulfate, 225-lb. dms,						
24,000 lbs. or more, f.o.b.						
vorkaib. ogs., same basisib.	.58 .561	· -				
im phosphate (see Di- and m						
phates).		-				
um silicolluoride, dms. c.l., t.l., worksb	.30	4 -	0	lulkar.		
ım sulfate, ig. gran., bulk, ç.i.,			Bacitracin, USP, nuxi-sterilo, one units or more millior		6 30	66
workston	80.00	90.00	Burbital, NF, 50-kilo drus , divd	. kWO	22.50	-
oml., bulk, f.o.b. works tori ogs., c.l., t.l., works tori	60.00 108.00	70.00 120.00	Darbital-sodium, NF, 50-kilo	dm5.	23.00	_
ım sulfide, liq., 40-44% tanks,		0.00	divd Barrio, dry grd . Southern, off-	. kilo color.	23.00	
100% basis, irt. equaldton.	460.00		con so, boys, cl. foli. mi	nga Ib.	.09	
ım sulfocyanide, tech. (see Am ım thiocyanate, tech., cryst.,	monium i	niocyanate).	water-grd., white, bgs.	. C.I .	.13	_
bgs., c.l., works lb.	1.02	-	(o b) works . unbloacher), extra-line, pk		. 10	
soln., 60%, tanks, frt.			grade, c. i., f o.b works	. lon	160.00	-
equald	.93	-	Danum carbonate, prudp., ball	k, c.l.,	.25	-
60%, tanka, I.o.b. works !b.	.13	-	works, frt oquald bys., somo bosis	lb.	257	
um zirconyl carbonato, soln.,			photo grado, txps., samo va	sis ton	510.00	•
bulk	.72	-	Barium chlorute, 100 lb. dms.	, 1-10	1.04	-
lanks, divd	.57	_	dm. lots, works Barlum chloride, tech , cryst , bg	 5c.l.	-	
chol, primary mixed isomors,			works	, ton	470.00	
tanke, frt. alld lb. namic aldahyde, dms lb.	.46 2.70	% - 2.60	anhyd, drumg c I., swno bas	us. Ion	690.00	•
nyiphenoi, bulk, workslb	2.35 91	1.03	Barium chlorida, purif., cyrst. 4	(b.	3.76	•
አስ, dma ነb.	11.50	12.25	I. Birium morohydrata, 55-lb. bQ	9., C.I.,	10.00	
9, lech., dms kilo	10.20	 4 PA	t I. f.o.b. works 1	00 lbs.	46.00	•
dms	3.65 700.00	4.60	octaliydrato, cryst., bgs., brais	આપણ OO RDS.	33.00	•
anks, f.o.blb	.33		1 Barium nitrate, 100-lb. bgs	., ., ,,,,,,,	32.50	
, dms kilo	11.75	-	works 1	VO IDS.	J2.00	
					الكنويس	

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

a/aipha alid./ailowed amorph./amorphous AMP/American malting point	C. cl a. C
anhyd./anhydrous AOAC/Association of Official Agricultural Chemists	C.
8-p.s./avaliable phos- phoric sold	. C
approx./approximately artif./artificial ASTM/American Soci- ety for Testing & Materials	. 0
ba nta	•

Materials		cs./cs ctns./ cyls./
beta		
/Baume	Y	d-/de
/Baume ls./barrets		dbi./c
g./beta-gamma		dena
18./bags		dest.
5./bales		tiv
ots./bottles		dl/de
p./oolling point	٠.	· allow
p.l./bone phosph	-1-	dist./
Of lime		aliti.
t./holling range	Ú.,	divd,
r./boiling range		dma,

ra.	E/East e.p./end point equald./equalized exp./expressed extr./extracted
	F./Fahrenheit f.a.s./free alongside ferment./free fatty acid f.f.s./free from chlor f.f.p.a./free from pru slo acid fib./filber f.o.b./free on board f.b./freezing poles

Ahrenheit ./free alongaide ent./lermentation	i-/laevo ib./pound i.c.i/less carios i.t.i./less trucklor
/free fatty acid /free from chlorine .a./free from prus-	Hq./Hquid m-/meta
c scid fiber -/free on board	m.a.p./mixed ani point meg./microgram mira./manujactu
freezing point freight amma	min./minimum moit./moiten m.p./meiting.poi
/gallon /general purpose n-/granular	N/nitrogen ri-/normai
/Ground P/Initial bolling	nat./natural neut./neutral NF/National Fon
oint Jimported	No./number Nom./nominal

oz./ounce
P/phosphorus
p-/para
Pac./Pacific
pf./proof
phos./phosphate
photo/photographic
pkgs./packages powd./powdered
precip./precipitated
prod./producer
pt./point
puly./pulverized
purif./purified
redist./redistilled
refd./refined
rety./retinery
resub./resublimed
 ret./returnable

ified distilled	USP/U	Hed State	•
ned nery		macopole cosity	. 7
bemildus eklen	VM&P/	yemish mi Inters	37
ially denatured le distilled	W/Wes	e e la	有效
ieast ondery	``.w.w./¥	White Land	
natiluent or o	ther standar	Chemical	Mark

OLINO	Nom./nominal	seo./seconder	y . ''' . 'W'W'/)	N STATE
A unit-ton	\$ 1 percent of 2 non-humber	400 10040 1000	and an address of a right	rd of
age figure	is 1 percent of 2,000 pounds of of the besic constituent multip price of 2,000 pounds of the	vie pasic constitu	ent or other standy.	Chi
f gives the p	rice of 2,000 pounds of the last	NAME OF THE SHALL	the finds arous.	

i due of		 1	Borax, tech , gran , decahydrate,
Barium oxide, grd. dms. c.l. 100 lbs. dvd100 lbs.	31 25 30.00	-	991: Juja of works ton bulk of works ton
iota bins, same basis,			tech , pentahydrate, gran. 99/2%. bgs , c l., works ton
WORKS. bulk t.l. (.O.b.	.30	-	bulk, c.l., works ton Borax, NF (See Sedium borate).
Barrum stearates, butter, ib. (881	1 05 anc (ixe)	-	Boild acid, tech , gran , 99.9%, bgs ,
Barium Sulfate, 1901. (888 Date of the San Barium Sulfate, USP, X-ray diagnosis Barium Sulfate, powed 25 kilo bgs.,		1	c I , works ton bulk, c I , works ton
grade, power, as the big.	5812	-	Boron trichloride, CP, 1,800-lir cyls., works
Berlum suriide (olack aan), drifs . c.i.	460 00	- 1	Boron Influoride, 60 lb cyls., t l . f.o.b
Basi Egyptian	.75 .86	.85 .90	werks lb. bulk, same basis lb. Beron trillioride, etherate, 500-lb
	90.00 45.00	-	dms.tl.,fob.,workslb.
Basiloi Grand Valt	52 00	70 75	phenolate, 500 lb dins . 11. same trasis lb.
Bauxie calcineo, refractory grades	070 00	_	Browne, dms , 11, works lb. bulk, 45,000 to run , works lb.
Mobile	10.00	15.00	punt , t I , divd ib Bromme divit , prices for dms, and bulk s
Bayberry wax, bgs	2 70	3 00	to per ib higher. Bulk (), price
Lieba IIIILID CIPS	3.10 3.05	3 20 3.10	higher for 30,000-lb min, and higher for 15,000-lb min
white, slabs, 100-lb, ctns	3 00 2 95	3.10 3.05	Bromochloromethane, dins , c l , f.o b. Midland lb.
yelow, slabs, 100-lb. ctns lb. Benjorite. dom., c.l. bags, 1.o b.		000	Butadieno, tunks, flo b
works	1.23	-	equald
lech, éris., c.l., t.l.,		.83	Butene-1, tanks, to b, works to n-Butyl ncetato, syn , tanks, frt alld ib.
the Rockles. Benzens, indust. or nitration, barges, t			n-Buryl acrylate tanks frt alle. E. ib
Reton Rouge, Le	/5	-	n Bulyl akohol, syn , feiment, lanks, in alld
Baylown, Tex gat Beaumont, Tex gat	75	-	sec-Butyl alcohol, syn , tanks, divd lb. tert-Butyl alcohol, syn , tanks, divd
Callettsburg, Ky gal Chicago district gal	75 75	-	E. Ib Butyl aldehyde (see Butyraldehyde)
Chocolate Bayou, Tex gal Clainton, Pa	./3	:	Butyl benzyl phihalate, tanks, fri
Corous Christi, Tex gai	75	-	Butyl chloride, tanks, works Ib
Deer Park, Tex	70	-	Butyl cyclohoxyl phthalate, tanks, divd lb
Wood Fliver, III	iomer (soe Li	ndane}	n Butyl other dins . c l . 11, works lb. Butyl isother yl phthalate tanks.
Benzidne crange, powd., bgs., dlvd.lb iq , containers, dlvd lb	4.90 3.36	3 B9	divid ib n-Bulyttacaple, tacks Turb works ib
Benzidne velow, AAA, bos., divd . lb	580	6 05 7 40	n Butylidhum 15° soln 1,000-lb lots or more cyts, 100°s
AAOA, bgs., dvd	5 95	6 20	basis divid — B
Benzocame, USP, dms., 1,000 kg lots f a.b, works kg	. 1000	11 50	tanks, 3 000 to mor, 100% bases. divid
Benzodhydropyrona, dms It Benzok acid, tech , bgs., c.l., t.l., f.o.t)	-	Butyl methacrylate, lanks frt ogcapt B
works). 55	5n	Bodyl cedal phibatato banks divid
sis	173	1 75	Butytoleate dea dres (C1 th tanks to
Benzophenone, N.F., 1,000 lbs. o more, t.o.b.	or	3 60	p fort Bulylphonol pades works the Bulylphilialajo pale Objutylphilisalatu
N F. 1.000 kilos or more, 1.o.b ke	g. 745	95	Putybaloaratio comple due 77 due or more
tech, 1,000 kilos ar mara, fa workskg	9 435		tables (b
 Benzolhiazyi disulilda (soe Me- tide). 		persal desig	tunies Ri
Benzotriazole, flake, dms., 1,000 lb or more, i.o.b. works	b. 610		Butylamare (see Mono, Disand Inbuty teri Dutylamare, does, c), 11, 1 o b
iom 10 .edi 000, rembewoq	/e, In 820		works Ib Igoka samebyas Ib
more, same basis	Of In Only	_	Hutylated hydroxygnisole, food grade dur, glyd ID
PERSONAL PROPERTY OF THE PARTY	iei .	•	Hulylated hydrosytolueno, food, feet grados, c. f. f. f. bgs , divdlb
equaid tanks fri equaid Benzoyi chlonde dms . c.l., works	10 .87 10 .80	-	toch figs established Ri
rounts, Iri. echanic.	II. 7 44	59 2 .75	Butyrildobyde, tauks, dyd ib
Benzoyl peroxide, regular gra 10,000-b lota or more, bo	in .		Bulyth: neid, bulks, fet alld the Bulyth: other (see Ethyl Bulythlo)
paste, 50% and 55% formulation	lb 2.35	G.9B	Butyrolactonii troks, Fo b. plant - II. n Butyrointon, dos . c l , dvd R
Benzyl acetela dese	lb. 1.71	1.95	lanks, divd
equald (1.1. dnis.)	rl.	2.60	
		1 85 1.43	
Bis Unis., Serio)B	-	
lech grade. LL dries some beat	1.34	•	
Benzyl benzoale drag	1.26		Carlmions chloridg, puril, cryst., 100
C. I. fr. counter	19.,	2 26	lb. dms , U , works
Benzyl chroamato as a	lb54		I INCLUS MAIN THE AND LAST
n-Benzyl-N.N-dimethylaming	. 16. 8.50 I.I.,	9 05	Hocklos
Benzyl tormete day	. W. 2.30	-	medium shado, biss., sama oasis e medium hebi shado, biss., sama bi
BRUSA ROBINSON STORY LAND LAND KITCH KO-169	¹-DUţyl-Π 1-CΓ£	180l)	Carlostum, CP votow, all shades, bbs
Benzyl saliculate, dms.	.lb 3.35	-	Hockies
DECOMMON AND THE PROPERTY OF THE PARTY OF TH	.ID. 299	3 26	I Cannium Murryman, IKI. Will. Will
Both Crust 500 acki (see b-	kiko 4000	D Ackin	i I., works, frt. equald medium-light shade, bbis., asma b
		-	Cadmum-mercury ithopone, maro
Banula nitrale, purif. cryst., t b.dma, iri equald. Banuth oxychlorida, 100 is	. lb. 10.00		Rockies
	na		Cadmium metal ingota or sticks, to
D. A. Sandia, USP, IDEC	. 10. 17.2(lum		lots, cs., divd. Cadmium nitrate, purif., flake 400- dms., c.l., t.l., f.o.b. ship pt.
Subgellate, purif., 100	1.10. 15.3°		Cortmitum-color/da-lithOnOffe, Office
Subriliate NF, Dowd 20	. ID. 10.5	D _	light shade, bbts., 400-b. lo fri. alid. E. of Rockles
Subgelicylate, purif no	. ID. 14.4	5 _	deep shade, bids.; same bass
Wilde, reagent, nower	100. 17.0	0 -	
P. PORTO A IDITAL	· D. 16.0	0 15.45	medium light shade, com, same
	pper .	7 -	medium shade, bbis., same basis maroon shade, bbis., same basis.
Banc Paro Chate grade, same bas Banc Pare, Syn., Imp., bags Bos de rose oil, Braz, dms. Penwian, dms.	'' P	1 -	I Cadmium-salankia Elhopone, Yesov
Peruvian, dma. 80% loner (red 48) dms. frt. alld. ted 52) dms., 8ame basis	·· ID. 10.7	5	shades, bola, sama balla. Cadmium sulfate, 50-lb. dms.
Bonerical signature basis	iD. 7.2	\$ 8.05	Quantity, f.o.b. ship. pf. Caffeine, dom., USP, syri, cryst. hyd., powd., 100-b., dos.,
Bonemeal, steamed dorm, bga. 10.b Midwest plants. Bone phosphate, delikiorimated	. 10. 8.5 . C.I.	0 7,90	hyd., powd., 100-lb. dros.
Bose prosphate, delkorinated Bose phosphate, delkorinated Bose phosphate, precip, (and Cal	. ION 180.0 180.0 (886	U 190.00 Defluorinal	ti, fri. slid., imp. cryst., anhyd., powd.; dr 10,000 lbs; or mote
Bone phosphate). Boran, tech, anhyd, 99%, bgs.	Ulum Pringels.	ilo inilasio:	Colemine, USP, dine. Calamus oil, dms.
works, bus, c.l., works	.c. .lon 847.(x)	Calcilerol (see Ergocalcilerol), Calcium acalaie, puril, powd d
and the second of the second o	100 000		

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	Borax, tech , gran , decubydrate , 9912 alaja , c I , works ton 237.00 - bulk, c I , works , ton 192.00 -	Calcium carbida, atd., generator size, bulk, c.l., f.o.b., works, ton Calcium carbonate, pulverized, 325-	_
	toch : pertlahydrate, gran. 89½%. txjs ; c l ; works ton 220.00 bulk ; c l ; works ton 265.00	. mesh, bgs., bulk, f.o.b. works	
	Borux, NF (See Sedium borate). Beild acid, tech , gran , 99.9%, bgs , c I , works ton 614.00	sturries. 54% aolids, same basis	
١	bulk, c.f., works	quicklime, gran., ind., bulk, work- 8ton 67.00	
١	works b. 3 80 - Boron Influencia, 60 lb cyls., 11, 1.0 b works lb. 4.03 -	Calcium carbonate, coated, bgs., c.l., works	
	bulk, samo basis . ib. 3 47 – Boron trillicitido, otherato, 500-lb	Cl.,t.l	
	dms . H., 1 o b , works . lb. 235 - phenolate. 500 lb dms . H. same Lasis lb. 165 -	bgsc.l., works ton 95.00 14 precip. dense. bgs., c.l., surface treated, bgs., c.l., works ton 195.00	Ю
	Bronne, dms , 11, works lb	ultrafine, USP, bgs., cl.,workston 180.00 17	70
	Bromme divid , prices for dins, and bulk shipped W, of Rockies, for per-lib higher. Bulk (it. prices for to 21%, per-lib.	Calcium chloride, conc., reg. grade. 77- 80%, flake, bulk, c.i., workston 153.00	
	higher for 30,000-lb min, and 4c to 5½cper-lb. higher for 15,000-lb min Bromochloronielhano, dins , c l , t o b.	100-lb. bgs., c.l., same basis ton 196,00	
	Midland	anhyd., 94-97%, flake or pellet, butk, c.i., same basis ton 217.00 80-lb. bgs., c.i., same basis ton 279.00	
	1.4-Butanediol, tanks, flo b., frt. equald b. 80 - dris saint basis b. 86 -	brining grade, 80-lb. bags ton 285.00 Calcium chloride, liq., 100 percent ba-	
	Butene-1, tanks, 1 o b, works to 26 .28 o-Butyl neetnto, syn , tanks, (r) alid ib	sis, t.c., t.t., barge ton 99.75 45% same basis ton 118.00	
	n Buryl acrylato tanks frt alld. E. lb 69 - n Butyl akohol, syn , feirment, tanks, frt alld . lb 34 -	Calcium chloride, USP, gran., 225-lb. dms.,t.l., irt. equald lb	
	sec-Butyl alcohol, syn , tanks, divd lib. 365 - tert-Butyl alcohol, syn , tanks, divd	10,000 lbs. or more, f.o.b. works	
	Butyl aldehyde (see Butyraldehyde) Butyl benzyl phthalate, tanks, Iri	Calcium cyanamide, indust., snhyd. dms, works ton 400.00 Calcium gluconate, USP powd. t.llb. 1 80	4
	Butyl chloride, tanks, works. Ib .99 1.00	Calcium hydride, lump, dms., 25- 1,000-lb, lots workslb. 10.50	
	Butyl cyclohoxyl phthalate, tanks, divd ib 1.01 - in Butyl other driss of all works ib. 1.85 -	Calcium hypochlorite, 100-lb. dms , truckloads ship.t. E. of Rock- les 100 lbs. 92.40	
	Butyl isorderyl pothadate tanks, dwd ib 35 - n-Butyllactale tanks Lub works ib 158 -	Calcium hypophosphite, dms., bulk, 500 kilos or more kilo 13.75	
	n Batylitham 15° sala 1.000-lb lots or more cyls, 190°•	Calcium lodate. FCC dms , f.o b works lb. 5 50 Calcium lodide, 50-kilo dms., f.o.b.	
	tanks, 3 000 to mm , 100% bases, deat = 14.75 =	works kilo 23.65 Colcium laciale, NF, powd . pentahy-	
	Buryl methacrylate, lanks frt ogsafet ib 88 -	drate, dins. 24,000 lbs or more 1 o b works lb. 2 00 MF gran, trihydrate, sante basis lb. 2 10	
	Butyl edyl phitatric tacks divid Butyl objected one of the Bityl objec	specialgran diedgrade sameba-	
	Tanles - Re - 83 p tert Bulylphenol (anles work) - Re - 70 Bulyl philialato pase Orbolyl philiphilo	C. (Conceapithenale liq. 4% Ca. C.1. forbiplant Fol Bochus lib. 85 of category particularities USP 100-	
	Pulytidearatic camebo dues 77 dues or more 10 91 97	(40) Edicities Edio 10 50 of Calcium particilierate, food grade	
ı d	Butylahorato tech (11 II) 60 62 62 666 55 58	f o b list alld 250 kilos or more kilo 8 00 di Calcium paniothonate, calcium chio-	
	Budylanore (see Mone) Disord Inhutylamore) ren Butylanore, dues, c.), f1, f5 b weals,	ride complox, fand grade, 160 grams per lb . f.o.b., frt. alld.,	
	Holker Same basis Ib 1 17 - Holylated bydroxygmicole, food grade,	500 lbs or more lb. 2.75 Calcium phosphate, dibasic, feed grade, 181/2% P. bulk, c.l., t.l.,	
	Buylated hydrosylulucius, food, feed grades, c. L. H., buy, died, lb 1.24 1.30	f.o.b. works ton 228 00 Calcumphosophate, dibasic, dilwdrate,	
	toch hips of the dividence in 124 130 13 Hips of the light in 124 130 13 Hips of the light in 124 130 130 130 130 130 130 130 130 130 130	USP, bgs. c.l., t.l., works, frt. equald	
	Budyth: ne of Lindes, for allel 10 .44Vz Budyth: other (see Ethyl Dudythlu)	donidico grado, same basis60 lbs. 49.90 Calcium phosphate, monobasic.	
	Nuivrotactorii, traks, f a lo plant - lb - 1 20 - n Prityronitria, dins , c l , divd	inonohydrate, food grade, bgs , c.i., t.i., works, frt. equald	
		enliyd., food grade, same ba- sls 100 lbs. 54.95	
1		tribasic, NF precip., bgs., c.i., frl. equald	
		or more f.o.b. frt. alid b	
	Cardiniana chimado, puril, cryst., 100-	Calcium silidate, paint grade (see Wollastonite).	
•	Carintum, CP, rod, dark shado, bbis.	Camphone chlorinated, 67-69% (see Toxaphene)	١.
5	Notice of the second series in the second second series in the second se	Camphor, syn., tech., 165-b. dma.	
	modum light shade, bbis. some ba-	USP, powd., 165-lb. dms., 5,000	
_	Circinium, CP yolkow, all shades, bbls , 100-ib. lots, frt. elid , E. of Rockies	syn., refd., 1-oz. tablets, curs. 1,000- lb. lots or more	'n
5 5	Cadmium fluoborate, IIQ. cono., orna	white dms. 2.00	į.
	medium light shade, bbis , same ba- bis 5.22 Cadmium-mercury kthopone, maroon	Canadila wax, crude, bgs	
	Rockles. In the E. Ib. 4.60	Capric sold, comi, pura, oma	
	Cadmium metal ingota or sticks, ton lots, cs., divd. b. 1.20 1.50 Cadmium nitrate, purif., flake 400-b. dims., cl., t.l., (.o.b. step p.t. ib. 2.10	Capric aldenyos (aldenyos C. 1975). So. S. 95.	
O	Cadmium-seignice-iuroporia, orango	1.0 D. Shipping John B. 85	į
	deep shade, bbis, same basis	Lob works	
	Cadmium-selenide ithopone, ren, vair. 6.77 6.80 shade, bbls, seme bais. 10. 6.27 6.30 light shade bbls, seme bais. 10. 6.27 6.30	Capsicum (see Pepper, red), Capsicum of (see Capsicum oleoresin).	į.
15	medium light shade, bots, series up 5,72 5.75	Capacini decident 11.00	
	marcon shade, bots., same bass. b. 7.47 marcon shade, bbfs., same bass. b. 7.47 Cadmirm-selente lithocore, vellow, all	1,000,000 pungancy b. 17.00	
00	Shades, bole, sand const.	Cataman seed in inner page 193	į
05 90	Catione, dom. USP, syrl. cryst. an	(FEF), built, all, works	
CO Nat	imp. cryst, anhyd., powd.; dms. 470 4.85	works.	78
ı).	Colemine, USP, dine.	And the second s	ÖÜ
· •	Calcilerol (see Ergocalcierol) Calcium scalate, puni, powd. oms 1.1, works	bulk of works 5 280 bulk of works 5 280 August 18,1986	100
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370.00 4	130,00	WE	EK	EN	DING	AUGI	JST	15,	1986	
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eed	.			Bami Austre	e basis. (allan, Ind	c.i.f ust., same	basis.	1.4		-
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ade, frt. Diba. 60.60	n		blow	п, 5-9 drater	oms. I bodled	tanks	Ib.	7 .7 .6	4	-
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) Ibs. 54.99 . fri.) Ibs. 62.54	_	c	ricini astor	come	ice, bas	, containe	f KOAC.	154.0	_	-
lbs.	- 	c	8910	ALUM I	iat., cos.	Fla	10.	18.0	0 35	5. 00
. b6 cl. . b0		0	atec	n., chi Iol, Ci	45-41	o dms.	iO-239	7.9	_	_
Wollastonite). Ima.,		1,	tech	bas.	. t.l., sam	e basis. otash, cau	, .KIIO.	3.7		-
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ALIMBELA			mediumvis., bgs., 24,000 bs.,	Cur
CHEMIC	·V		f.o.b. Hopewell, Va., 100% basis	Cun
	/A		turing pointb64 -	-
PRICES		[]	CMC, purif., high vis., (see Cellulose gum). Coaltar pitch, indust., iq., workston. 250.00 255.00	Cyc 9
PRICE	·.'	·	roofing, 140-155, Federal specifica- tron RP-381 Type 1, bulk	Cyc
LUIAFA			Cobalt acatate, dms., t.l., Irt. alld lb. 3.61 4.25	Cyc
WEEK ENDING AUGUST	15.	1986	Cobalt carbonate, powd., dms., (rt. alid	٠,٠
Chlorinated parallin, Zone 2 prices are 10			coolar chome, dins., 5,000 lbs. or more, ft. equald	Сус
Zone 3 prices are 2c per lb. higher are 5c per lb. higher	and t.l. dr	um prices	Cobett metal, 99.5-99.9%, 250-kilo. drns., f.o.b. NY, Chicago fb. 11.70 -	-
Chlorinated rubber, 5, 10, 20 cps., bgs. 1.l., divd.,	1.68	_	Cobelt naphthenate, itq., 8% Co., drns., dvd	
40 cps, bgs., t.l., dvd lb. 125 cps., bgs., t.l., dvd lb.	1.92 2.60	-	Cobalt nitrate, dms., t.l., frt. alld lb. 2.74 3.45 Cobalt oxide, Imp., black, 72-73%	
300 cps., bgs., t.i., dvd,ib. Chlorine, tanks single units works,	2.75	-	Co	
Chloroscatic acid, mono, high purity,	95.00 2	200.00	Cobalt phosphate powd. 32.1% Co., dms., dlvd	2.4
flake, 99% bulk f.o.b. worksb.	.56	-	Cobalt resinate fused, 3% Co., dmsb38½ -	2,4
2-Chloro-4-aminotoluene, tech., fq., drns., c.l., t.l., f.o.b. works . ib. o-Chloroantine, figuid, dms., c.l., f.o.b.	1.88	-	Cobalt suifete, cryst., bgs., 10,000 lbs. or more, frt. alid. E lb. 2.81 3.54	1
works	1.63 1.55	-	monohydrate, dms., frt. ald lb. 4.56 8.02 Cobalt tallate, 6% Co., dms., divd lb. 2.16 -	2,4
p-Chiercantine, solid, c.l., t.l., f.o.b. lb. flake, cms., c.l., same basis lb.	1.70	-	Cocol butter, spot	De
o-Chlorobenzaldehyda, dms., t.l., works	2.45	_	Coconut oil (See Oils, Fata & Waxes market report.). Coconut oil acids, distilled, t.c.,	De
p-Chlorobenzaldehyde, dms., 2,000 bs. or more, worksb.	3.84	3.85	f.o.b	
o-Chlorobenzoic acid, dms. i.t.i. wks ib. p-Chlorobenzoic acid, dms., 500-ib.	3.90	-	Cod oil, f.o.b., Gloucester, Mess., bulkgal, 6.50 -	De
lots or more, works	1.69 .34½	2.25	Codeine alkaloid, NF, 25-kilo lota, kilo. 900.00 – Codeine phosphale, USP, cns., 25-kilo	N
tech., consumers, tanke, divdib. NF tanks, min., consumer, 4,000	.341/2	-	tots	De
gals. divdb. 2-Chloro-4-nitroaniline, paste, com-	.351/2	-	Codiliver oil, NF, drns gal. 6.50 7.25	
	3.06 3.15	-	Copalba balsam, dmslb. 1.50 - Copalba oil, cns., dmslb. 3.75 - Copper acetate, monohydrate, cryst.,	
powd., same basisb. 4-Chloro-2-nitroanine, paste, 172.5 mol. wt., commodity basis,	3.13	-	tech., dms., t.l., works ib	
dims., (J., f.o.b	2.25 2.70	-	100,000-lbsper-year con- tracts, worksb. 1.34 -	De
o-Chlorophenot, dms., c.i., irt. equaldb.	2.00	2.40	Copper carbonate, 55% Cu, dark, dense, 50-ib, bgs., c.l., t.l.,	
p-Chlorophenol, dms., c.i., frt. equaldb.	1.25	1.70	works	F
Chloropicrin, comi., 1,500-lb. cyls., i.i., f.o.b. works	1.25	_	works 100 lbs. 109.30 - Copper chloride (cupric), anhyd., c.l.,	۷
Chlorosulionic acid, tanks, irt.	.181⁄2	-	works	Di
p-Chlorotoluese, tech., tanks, worksb. Cholecalciferol, dry, 40,000,000 units	1.00	-	lb. lots or more 2.30 2.62 Copper thuoborate, (cupric), liq. conc.	ь
	24 00	-	dms., 1./., works, frt. equald	
kilo dms., fo.b. Springlield, Mokilo.	6.90	_	Copper gluconate, FCC grade, 25-lb. dm., frt. equald	l٩
Choline chloride, feed grade, 70% aqueous, f.c., t.f., divd. E of			Copper metal electrolytic wire bars, divd., domestic, basisib62½ – Copper naphthenate, ilq., 8% Cu.,	_
Flockiesb.	.28 .39	-	dris., fri. alid	¤
Choine chloride, 60% dry supplement, bulk hopper cars	.39	_	dms., t.1., works	_
bgs., 50,000 lbs. min lb. Cholina chloride, pharmaceutical, 50	.40	-	works frt alld	P
kilo, lots, f.o.b. Springfield, Mokilo. Choline dihydrogen citrate, 98% min.,	5.00	-	80,000-lb.lots, worksb. 1.21 - red (cuprous), cms., 97%, USN Type	╻
60 kilo lota, f.o.b. Springfield, Mokilo	6.00		1, (AA), 80,000-lb. lots, workslb. 1.19 1.20	
Chrome green, CP extra light, logs., divd. E. of Rockies lb.	1.6B	_	red, 90%. Type 2, same basis lb. 1.15 Copper-8-quinolinolate, 10%, liq.	۱
light, bgs., same basis ib.	1.70 1.72	-	emulsion, i.i., divd	D
extra deep, CP., same basisib. Chrome orange, CP, bgs., divd. E. of	1.74	-	9 9 % bg 8., c.l., f.o.b. works 100 lbs. 48.45 - CP, pentahydrata, cryst., dms., l.c.l.,	1
Rockies	.83 1.09	.89 1.18	works	þ
Chromic acid, 9934%, tlake drns., c.t., Int. equald	1.18	-	works	l
grd., same basis	1.25	-	Corlander oil, USP, dms lb. 22.00 28.00 Corlander seed Moroccan lb	2
500-2,000-lb. lots, workslb. Chromium fluoride, dma., t.l.,	.10	-	Rumantan	
Chromium ritrate, dms., t.L., f.o.b., ib.	.81 1.45	-	Com oil, crude, toots (sospstock), 95% acid: New York	6
19% metal soin., 500-lb. dma. same basis	.74	.88.	Com of acid, dms	١
bgs., c.l	5.50 1.90	2.00	Corn syrup 43 Be., tanks, l.o.b. works100 lbs. 11.22 11.43 Cortisone acetate, USP, drns., 5 kilos	1
Cinnamic aldehyde, cns., dms lb. Cinnamic elcohol, 25-lb. cns lb.	1.85 4.50	2,45	Cottonaeed med (See Oils, Fets & Wexes market report.)	با
Cinnamon, H2	1.05 86.00	1.10 95.00	Cottonseed of (See Oils, Fats & Waxes market report.) Cottonseed oil, acidulated (soap	1;
Cinnamon feaf oil, dms	2.80 5.50	6.65	stock), scid, 95%, tanks,	
syn., 55-gal. dms. l.o.b	3.18	-	Contonseed on acids, dist., dms (b63 —	
Clinic acid, USP, anhyd., gran. 250-lb.	1.19 .86	_	Cournerin, NF X, cryst., over 600-lb.	1
Citric acid anhyde, powder bc. higher Citronella oil, Ceyton, dms b.	2.12	2.24	Cream of terrar (see Potassium bilartrate). Creosote, coaltar, grade 1, tanks.	1
Java, dmskilo China, dmskilo	4.50 4.30	=	f.o.b. works	
Cironellal, 26-lb cans	3.85 3.68	7.40	p-Cresidine, fused, dms., works ib. 4.31 m-Cresot, 95-98%, dms., t.l., f.o.b. b. 1.71 lanks, same basis ib. 1.65	1
Citronettyl acetate, dms ib. Citronettyl formate, 25-to cns ib.	5.50 6.85	6 60 -	m.p-Cresol, 99%, cms., t.l., (.o.b , lb , 94	1
Civet, artif., bots	20.00 500.00	=	o-Cresol, 99% pure, drns., t.l., t.o.b. (b	
Clay ball, dom air floated, bgs, o.l., Tennton dom., crushed, moisture-repsi-	49.00	: -	98% pure, dms., t.1., (.o.b	
lent, bulk, c.l., Tenn., ton Clay China (see Kaolin)	24.00	-	p-Cresol, 98%, dms., t.l., f.o.b Ro. 1.22	1
Cleaners, naphtha, 140° flash tanks. New Jersey or New York.			content above 25%, reein and	\cdot
divdgal. Clave leaf oi Indonesian, reg. das kilo	1.40 2.85		tricresyl phosphate grades,	
Madagascar, reg	4.20 24.00	- . ·	Cresylic acid, dom., metapara content	1
Gloves, Brazil	2.20 4.20 2.20	— · .;	Cryolite syn., bulk. cl., works ton 510,00 660,00	
Madagascar				1
Variativity				:

		بروي برجي			I
ibe root, powd., 5% rotenone, basis, 50-ib. bgs., t.l., works ib	.60		Diethyl harbhaic acid (see Bribital). Diethyl carbonate, tunkwagons,		-
rmene, bulk, contract, f.o.b lb umin seed, indian, bgs lb.	.1314 82	.13\. 85	Diethyl ethanolamine, CP dms., c1	-	1
yanuric acid, dms., c.l., t.l. fri equaldb.	1.16	1 37	tinks, divd	-	ļ
yciamen aldehyde, 50% min. akie- hyde content, dms	4.85	-	Diethyl ethanolamine tech, 8c per ib lower. Diethyl explate, dins cl., 1 eb. works		
98.5%, dmsb.	7 35 7.85 885225	9.20 895225	Delhylphthalato tanks to b b. 82 Odorless cosmetic grades, t.l.	.65	i
yciohexane, bulk, barges, wksgal. yciohexanol tech., lanks, i.o.blb.	.885225 .62	66'4	works		
yciohexanore tech., tanks, I.O b. worksb.	.55\; .565	.58\2	Diathyl thiouren, dms, c.l., t.l., works.		
lanks, dvd lb. yctohexylamine, tech., tanks,	.85	_ }	Di-2-othylhoxyl adipate (see Dioctyl adipate). Diothyl toluamide 95-97% min meta	-	
worksb.	.00		isomer dins., t.l., f.o.b. worksb. 2.78		,
		ļ	N.N-Diothyl-in-toluiding, tech , liq., dms., c I , f.o.bb. 3,18		1
			tanks, same basis lb. 3.10 Diethylamine, drus , c 1, dlvd lb. 1.15		
			tanks, samo basis		
4 D and such 50 th han at 1			works		
.4-D acid, tech., 50-lb. bgs., c.l., t.l., works, frt. equaldlb.	1.10	1 25	Diethylbenzene, tanks, 1.0 b. works lb9 Di-2-othylhoxyl nzeloto (seo Dioctyl szelate) Di-2-othylhexyl phthalate (seo Dioctyl phthalate)		
4-D butyl ester, tech., 55-gal. dms., c.l., t.l., works, frt. equald lb.	1.30 1,25	- ') 14 - 314	
tanks, same basisib. 4-D dimethylamine sait, t.c., t.t.		_	dms., c l., frt. alid E fb		
works, irt. alid gal. ecyl alcohol, mixed isomers, tanks,	8.05	_	Diethylene glycol monoethyl ether, dms. c I , frt. alld E lb		
divdb. perfume grade, dmsb.	.32 .75	-	tanks, frt. alld Eb. 5 Diethylene glycot monomethyl ether,		
efluorinated phosphate (tricalcium), feed grade, 18% P, c.l., bulk,	105.00	228.00	dms., c.l., frt alldb		
I.o.b. works ton Penatured alcohol, ethyl, CD18, CD19,	195.00		Diethylene glycol monobulyl ether ac-		
tanks, divd. E	1.67 thorization	by Alcoho!	tanks, divd. E		
and Tobacco Tax Division. lenatured alcohol, ethyl. SD2B tasks dlyd E	1 01	_	etate, dms , c.t., frt alld E. lb	0 - 2 -	
SD2B, tanks, divd. E gal. SD3A, tanks, divd. E gal.	1.81 1.767 ₂	-	Diethylanetriamine, tanks, f.o.b.		
SD23A, tanks, divd. Egal. SD23H, tanks, divd. Egal.	1 86 1.89	-	Diethylenotriamino pentacetic acid, pentasorium salt solution.		
SD29, tanks, divd. Egal. SD30, tanks, divd. Egal.	1.83 1.72%	-	tank cars/tanktrucks, frt- equalizedth.	45 - en 300	
SD36A, tanks, divd. E gal. lenatured alcohol, ethyl, brucine formula	1.88%	-	Digitoxin, USP, imp , bots , gram 2. Digitoxin laurate, data , ton lots , ib.	60 300 32\12 - 62 .73	
8D40, tanks, divd. E gal. ethyl, optional formula, 8D40, tanks,	1.83	-	Dihydrazine sulfate, dms works . 1b 1.	10 125	
divd. Egal. For anhyd. alcohol on above formulae, j	1.82½ prices are 1		Dihydroxyacotone, 50-kilo lots.		
Nigher, West Coast divd. prices are the san			Di isphutyl katona, tanks, dlyd. Ib.	60 - 55 57	,
except in idaho, Oregon and W differential on tankcars is maint Desoxyephedrine hydrochloride (Sec. I	ained.		Di techutulone, tenhu Lub Mouse	37 -	
drochloride)	vietnampri	ванине ну-	Di-Isodocyl phthulate, tanks, dlvdlb. Di-Isononyl phthulate, tanks, dlvdlb.	39½ - 41 -	
Detergent alkylate, straight chain do- decylbenzene, tanks, bargos,	AE.	_	Di-iso-octyl azelate, tanka, dlyd E ib.	.90 - .41 -	
f.o.b,	.45 28 04	•	Di-isopropanojamino, dina, c.l., frt	.66/2 -	
cl., works 100 lbs. white, paper bgs. c.l.,	28.04	-		.58½ - .17 -	
works 100 lbs. Dextrose, anhyd., comi, bgs., c.l., did New York 100 lbs.	27.43	-	tanks, same basis	.07 -	
divd. New York 100 lbs. USP special, 100-lb. bgs., c.l., divd. New York. 100 lbs.	41.10	-	frt olid ib. 1 Dill oil USP, drus ib. 7	.00 82	ä
divd. New York 100 lbs. Dextrose, hydrated comi, bgs., c.i.,	46.50	-	Dimethyl anthroniato dms. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	.80 -	
divd. New York 100 lbs. Western zone 100 kbs. Discetone sicohol protone free	24.25 25.60	-	Dimothyl carbonate, das, t.l., f.o.b.	.95 - .90 -	
Discetone alcohot, acetone free, tanks, divd	.52	- 16.00	Dimnibul dichkyovinyi phosphate, 55		90
Diacetyl, flevor grade, dms	9.25	15.00	Dimethyl ethanolamine, annyd., dms.	15 1.	18
min. 18% N, 46% P. bulk, c.t., f.o.b. Fla. works ton	140.00	145.00	tanks, divil. E lb.		.10
Diammonium phosphate, feed grade, 18% N, 20% P, bulk. c.l., f.o.b.	040.00		Dimethyl other, normal grado, tanks, divd	.38 -	•
Fig. works	240.00 250.00	-	Dimothyl phthalatu, tanks, 1.0.0 works,	.65 -	
Diammonlum phosphato, tech., bgs., c.l., t.l., works, frt.	#A		Dimethyl pobacato, tanks, f.o.b works,	2.28 25)Ø
equald	52.50	-	works	.67 .46	t)
sis	57.75	-	tanks,	1.09 A 78	•
dms., c.l., t.l., works lb.	1.04 .97	-	Dimothylacotamido, bulk 1.0.b	874	
Diarylida yellow, OT, (yellow 14), dms., int. aiidb.	6.20	-	equald., 100% basis	.631/1	
o-Dianisidine dihydrochloride, 100%, MW 244, dms., t.i., divd ib.	4.25		anhyd, tanks, irt, equald, ib.	6314 5414	
2,6-Di-tert-Butyl-p-Cresol (see Butylate Dibutyl furnerate, tanks, f.o.b.	-		N,N-Dimethylarilline, t.l., 1.0.D	1.03 1.11	,
works	61	.75 -	N.N-Dimethylformamido, dms., c.i., t.i.	57 49	•
Dibutyl phthalate, tanks, works ib. Dibutyl sebacate tanks, works ib. Dibutyl sebacate tanks, works ib.	. 1.66	.54 1.85	2,4-Dinitroanilina tons-lots, f.o.b. ib.	1.22	•
Dibutylamine, dms., c.l., divd ib. tanks, same basis ib.	. 1.08	-	Dinitroaniine, oranga toner, CP, Dgs., divd. E. of Rockies ib.	5.20	
Dicapryl phthalate tanks, frt. alid. E. ib 2-5-Dichloroanilline, Ilake, dms.		.37	2,4-Dinitrochiorobenzene, Crystalizhio	96	٠,٠
works	1 90	-	2 4 Digitrophenol 260-lb dris. (.o.b.	1.95	-
3,4-Dichloroanline, tech. 68%, solid dms., c.L, t.l., f.o.b. works . ib	148	1.57	Districtions my tech (.c.b.	30 .	.43
o-Dichlorobenzene, tech., 80%, dms.	52		2.4-Dinitrotoluene, dms., G.L. I.L.	25	•
tanks, same basis ib 96% refd., dms., c.l., same ba- sis ib	. 54		MANAGE	85	Ø
p-Dichlorobenzene, graded, 300-th	47	-	Discret shipping tenks divi	90 40	db
oms., t.i., f.o.b., frt. equaid, ib lanks, iic., same basis	51	.62 .47	Dioctyl phthalate, lanks, dvd. Dioctyl sebecate, \$9%, tanks, f.c.b. ib. works.		58
4.9-Dichloro-4-hitroaniline, dms, 10.000 lbs, or more works in	, , ,		1.4-Dioxane, tanks, irt. alki. E	1.21	•
Dicyclohexylamine, dms., c.l., LI.)). 	• • •	Li., aame pasts. Dipentaerythritol, bgs., c.l., t.l., dvd., b. E. Dipentane steam-dist., tanks, f.b.b. F. works. Diffets terroscites derived, tanks, b.	142	in the
tenks, same basis	1.36		Dipeniene steam-diat, tanka, f.o.b.	25 26	20
divd			Grillone for bottomy desired and		7.
98% lanks works		: 	Diphenhydramine hydrochloride. USP down 1,000-kilo lots, dmt	0.00 P	ø
Distriction of the control of the co	44	47	and the same of th	176	<u>الر</u> بر
		出し ごう	ALL THE PROPERTY OF THE PROPER	,65	1
DDVP (see Diniethyl digfilorovinyl pho	sphate).	23 g = 1	Dipneryl, 98,4% pp. pp. pp. pp. pp. pp. pp. pp. pp. pp	1 1	χÜ

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### A continued Report Vol. 10	B Gr 4 Malachile Green Crystal . ib.			TOO Residence See Brown 500 Health Re. 14 V		Fructos
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DY A Brilliant Paper Yell 3GX DX A B9 Serior Paper Yell 3GX DX A B9 DX DX A B9 DX B9	DR 81 Paper Red 8BLP	0.15		L'undoug dibroudets dans . C.L. Kl.,		
DY A Brilliant Paper Yell 3GX DX A B9 Serior Paper Yell 3GX DX A B9 DX DX A B9 DX B9	DOr 102 Fast Scarlet AV Ib.	0.85 6.25		remotelRt2		
Brillant Paper Vell SGX Lig. 1b. 4.69 O Y 11 Stilbane Yellow GA. Ex. Conc. 1b. 3.03 D Y 11 Fast Yellow RGI. Cond. 1b. 3.03 D Y 14 Fast Yellow RGI. Cond. 1b. 3.03 D Y 15 Fast Yellow RGI. Cond. 1c. 1c. 1c. 1c. 1c. 1c. 1c. 1c. 1c. 1c	O Y 4 Brillians D	7.47	-	Ethylene dichlorely tanks, 1.0 b.		(load)
O Y 11 Stilbane Yellow GA Ex. D Y 41 Fast Yellow GA Ex. D Y 41 Fast Yellow GA Ex. D Y 41 Fast Yellow RGL Conc. 200%. D Y 41 Fast Yellow RGL Conc. D Y 15 Starlet BA D Starlet BA D B 15 Starlet BA D B 17 Fink REL 200%. D B 21 Starlet BA D B 22 Starlet BA D B 22 Starlet BA D B 23 Starlet BA D B 24 Starlet BA D B 25 Starlet	1950		•	Finding object indust, lanks, Irt.	•	Gallici
D Y 41 First Yellow Rigit Cond. 200%. DY 27 Resin Fast Yellow Rigit Cond. DY 27 Resin Fast Yellow L6G. Ib. 14.40 Dis R 1 Scarter BA Du R 3 Starter BA Du R 3 Yellow B Dis Y 4 Yellow B D	O Y 11 Stillbane Voltage Lig Ib.	4.69 1.75	-	1 ulki	31 -	Garic Gelati
D Y 27 Resin Fast Yellow L5G	D Y 41 Feet Value GA. Ex.	3 03		tonka divd E	11/4 -	1
Dar 1 Scalet BA				Fibulana alveal manaalhyi einer.	51 -	- 1 1
Day 3 Pink REL 200% ib. 21.00	Dis R 1 Seein Fast Yellow L5G	9.75		Lithelana electi monomothyl Alber.		1
Dis Qr 3 Orange GRA b. 6.84 Dis V 1 4RN Paste b. 3.77 Dis V 28 Bordeux BV 200% b. 7.85 Dis B1 727 Blue BQLF b. 10.05 Ethylene glycol monoriethyl ether accitate, tanks, fit. alid. E. b. 43 Dis B1 727 Blue BQLF b. 10.05 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tanks fit. alid. E. b. 35 Dis B1 727 Blue BQLF b. 10.05 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tanks fit. alid. E. b. 35 Ethylene oxido, tan	Dia Ya Yamk REL 200% In	4.26	_	Ethyloge dwol monobuly ether ac-	· · .	
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Dis V2 Bordeux BV 200%. Ib. 17.25 Dis B1 27 Blue B0LF. Ib. 10.05 B1 102 Blue 9FDA 300% Ib. 10.	Dis Or 3 Orange GRA	6.84			56½ -	3
De St 1/2 Blue GFDA 300% ib. 10.05 Ethylene trichtoride (see Trichtoride) (see Tri	Dis Voe Paste	3.77	' <u>-</u>	Ethylene glycol monomethyl ether ec-		Geran
Solve TA Paste b. 4.10 VBit 25 Olive TA Paste b. 5.60 Endate Brain Brown of Solve Tales and Solve Tales b. 5.60 Endate Brain Brain Brown of Solve Tales B	Ota B1 27 Blue BGL F	17.25	_	Ethylene oxido, tanks I o.b		nal. syn
VBx 25 Offive TA Peste ib. 5.50	102 Blue GFDA 300%	10.05	~	I Fiscalantal NF data Portubussa 1770	50 -	Geren
Eugenol, USP, dms. Não 7.55. Eugenol, USP, dms. Não 884. Entre dina antyd., USP, 80-0z. Ephedrine hydrochloride, NF cryst., dms. Sphedrine suiteta, USP, cre. Não 80 82 60 62 62 62 62 62 62 62 62 62 62 62 62 62	V Blk 25 Office Double Page	4.10	_	Eucalyptus off, Portuguese Nr., recti-	50 -	, [. Cmi
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ı	Ferric chloride, sewago grade, 100 per-		1	A	7
	Forme nitrate, cryst., dms., t.l., f o b ib	178.00 2 .64	255.00	CHEMICAL	
ĺ	Ferric oxalate, tech., gran., 50-lb. dm., f o b. works	1.65	-	VIIEMIVAL	
	Ferric phosphate, FCCg insoluble pow- der, dms. 10.000 lbs	1.10	1.15	PRICES	
	pearls, 50-lb, dm lb.	1.11	-	PRICES	1
	Forric rosinate, precip., 6.75% Fe. dms. ton lots fit. alid ib. Ferric sulfate, partly hydrated, 100-lb.	.45	-	WEEK ENDING AUGUST 15, 198	_
	bgsc.i , works	141.00 117.00	<u> </u>		<u> </u>
1	ferric ammonium citrie, NF, brown, green gran. 100 ib. dms.,		Ī	Glue, bone, extracted, green, jelly- grams, bgs., c.l	
	2.000 lb min , f.o b. shipping pt	2.00	2.95	85 jeflygrams, bgs., c.t., f.o.b 1b	
97	2c per pound surcharge for shipments Y Ferric ammonium oxalate, fine gran., 250-lb dms., t i., f.o b. works.	v. QI Wenva	r	164 jellygrams, bgs., c.i., f.o.b 1b	
	Eib.	.42	-	220 jetygrams, bgs. c.l, f.o.b fb	
ļ	acetic acid, Industrial grade, sodium salt, soln., 4,5% Fe.		١	108 jellygrams, bgs., t.l., f.o.b lb	
	t c.t t.fo.b. worksib. agricultural grade, sodium sait solu-	.55	-	164 jeflygrama, bgs., t.l., f.o.b lb	•
	1001, 5% Fe, t.c., t. t., 1.0.b. works	.64	-	222 etiygrams, bgs., Li., f.o b lb. 1.00 - 251 etiygrams, bgs., t.l., f.o.b lb. 1.05 -	•
	Ferrous fluoborate lig. conc., dms., t.l., works, frt. equaldlb. Ferrous gluconate, NF, t.l., works E.lb.	.64 2.25	-	283 jellygrams, bgs., 11, 1, 0, b., lb. 1.10 - 315 jellygrams, bgs., 11, 1, 0, b., lb. 1.15	
	Ferrous naphthenate, liq., 6%, Fe.	1.17		347 jellygrams, bgs., t.l., f.o.b lb. 1.20 - 379 jellygrams, bgs., t.l., f.o.b lb. 1.25 - 411 jellygrams, bgs., t.l., f.o.b lb. 1.30 - 1.30	
	Ferrous sulfate, moist, bulk, t.l. f.o.b. works		_	411 jelfygrams, bgs., t.J., l.o.bb. 1.30 - 444 jelfygrams, bgs., t.J., l.o.bb. 1.35 - 477 jelfygrams, bgs., t.J., l.o.bb. 1.40 - 4	:
	heptahydrate, gran., bulk, t.l., f.o.b. workston		150.00	Glutamic acid, 99½% drns., 100-fb. lots, fn. alid	_
	monohydrale, gran., bulk., t.l., f.o.b. workston	170.00	180.00	Glycerine, nat., reld., USP, GP 991/2% tanks, divol	_
,	USP, powd., 400-lb. dms lb. cryst , 250-lb. dms lb.	61	-	USP, CP, nat. 96%, tanks, divid 1b	-
,	Fir oil, Canada dms	8.75	.75 -	Sýn. 99,5%, tanks divd lb91 Glycine (see Aminoacelic add).	-
	kettle-bodied, tanks	32	.36	Glyceryi gualacolate. 100-lb. flb. dms. 1.o.b	-
	tanks	26	-	Giycolic acid (see Hydroxyscetic acid) Giyoxal 40% soin., bulk, tanks,	
	protein grd bulk f.o.b. At lantic port.	n 295.00		divd	Ξ
	nnp Childan, 65% protein min.		-	Calif., dms	-
	bulk, C.L. III, ex whise, flo.b Atlantic and Guill ports from Fluotrain acid, data, III, works, fr	1 285.00	-	ex whee	.40
	equality! Engineerition, No. 11 bulk, tank	ს 70 5.		Granda cryst 90-92% powd., bgs.,	.6. .7
	Ho 12, bulk same basis	b 5	8 .74	dms.ex.whse	ر.
	No. 22 bolk, same basis No. 113 bolk, same basis	lb6	93	Graphite, amorph., cryst., 97% and up,	
	Nr) 114, bulk, samo basis Fluosikok ackt (seo Hydrofkrosikelis a Formildehydo, 37% methanol frae (u	icid).	/2 1.00	powd., bgs., dms., ex whse	1.2
	intivited) clive, gulf	b0 s.	090. 88	oms., ex whse	.7
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,	divil	ol)	945 .102 055 .106	Guelacol tech . 5004h dms., 24,000lb.	
	Formanikie, tanks, f.o.b	b3 b4	9 –	Conn	-
)	Formic scid 90% lanks, f.o.	b. b 3	6½ -	Gustacwood oil, dris ib. 2.50	-
0	95% drys., c t., works	10D 10, _	11/2 - 0 1.03	ship"t, pt	.76 .85
•	dms Fumaric acid, food grade, bgs. t.l., f oquald. E	rt.	6V2 .77V	same basis	.0C
	tech. grade, bgs., t.l., t.o.b. t	rt. Ib.	.621	△ │ ■ ■	
3 6V)	Furfural, tanks, 1.o.b. Cedar Repo	жа. lb7	6 -		
5	Furfurylalcohol, tanks, f.o.b, Memph Tenn. and Omaha, Nob	18,	2 -		
05 5				Heliotropin, dms	8.25
				Henbane leaves, bis	-
8	U			mont Tex	_
2 714	G selt, dms., frt. alid. 100% basis	b. 2.3		Hentanda edd. evn., tanks, f.o.b	-
	Galilo acid, 400-kilo lots	B6.0	0 105.00	Hexadecanol, syn., tanks, f.o.b., b 4392 Hexadydrophthalic enhydride, tech. dms., i.t.l., i.o.b. works b. 1.42	. -
	Gelatin, edible, 100 AOAC test, dm	B. 1.5	n 1.75	Her amelindene letremble, gran. bgt.	. :

		I BIN I WIN CAMBRIA, 1400-11 1 Inc.			
	1.305		The state of the s	8.00	8.25
	9.25		Heliotropin, dmsb.	0.00	0.20
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4	-		Heptans, Indust., tanks, f.o.b. Beau-	1.07	_
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	-	I a to all the Constitute KBO DOVD 140.00	Hexabydrophthalic enhydride, tech.	1.42	
	-		dms., Lt.l., Lo.b. works	1.42	
V.	_	Gelaun, edited	Hexamethylenetetremine, gran. bgs	.55	_
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٠. ٠	1	nal., 90-92%, caris. syn. 98-98%, dms	worksb.	:7814	
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٠.		Gerenkmoll Moroccan	I. Dawiersenrencii, Derr. Billio., 60°00, 00°0		
)	η	Planen	Armore M. Alia.	30.00	_
1	-	Chinese Ib 53,00	Lucanicologica birdropponida, USP, 10-	40.00	11.30
	·	Turkish (see Palmarosa on)	I inn∟n≯ lots bots 02.	10.25) I.au
		Geranyl acetate, ons.	Hometropine methylbromide, USP, 10-	9.70	10.70
٠		nat, dma	250 cz. lote, bots oz.	.25	.28
	1.1.0	Geranyi formate, syru, union b. 15,95	Horehound herb, bla	20	
	(1961.15)	nations a los Bo	Hydrazine hydrate; 85%, t.t., frt.	1.64	
1.5		Gisonics, 4.17, June 100 180.00	55 gal, drns., t.l., frt. elid ib.	1.61	
7	1	malasta granta hardis	Hydriodio acid, purit., 47%-57%, 2-		
7.7	- P. 3	Charles Cochin bos.	Hydnodio acio, pora, 17 A. Ib.	7.50	_
		Chinese second	Hydroablelyi alcohol, tech., solid.		
		Egypti b. 53.00 Turkish (see Palmerosa off). 6. (4.4 8.00 6.4 8.0	doe of Lob zone 1 lb.	.65	-
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CHEMIC!		tots	.88%	.751/2	Lanolin
LICHILL		equaldtb. Iron oxide, brown, syn., bgs., c.l., frt. equaldb.	.68	.781/2	ph
		fron exide, metalic brown, i.c.l., bgs., frt. equald	.13	.15	tec
DDICES		iron codde, nat., red., dom., pure, bgs.,	.275	.40	Lard (Se
PRICES		c.l., worksb. Iron oxide, yellowb. syn., bgs., c.l., irt. equaldb.	.18 .63	.71	tanks Lard oil
WEEK ENDING AUGUST 15,	1986	fron oxide, buff, nat., dorn, bgs., c.l., t.l., works, lightb.	.75	.80	tan prime
		other shades, bos., c.l., frt.	.60	- EE	prime
Hydrochloric sold, 20° Be, tanks, works, East	65.00 70.00	equaldib. lastoic enhydride, bgs., f.o.b. worksib.	.50 1.40	.55 	NOTE
Gulf Coast ton 57.00 West Coast ton 90.00	105.00	Isoamyi alcohol, 95% tanks, frt. alkdb.	1.44	1.48	Laureli
22° acid, same basis, Eastton 66.00 Midwestton 66.00	78.00 70.00	Isoborneol, 100 lb. dms lb. Isobornyl acetate, dms lb.	7.25 .80	1.15	Lauric a
Guil Coast	115.00	Isobutyi acetate, solveni grade, lanks, Irt. alidb.	.45	.48	Lauric
NOTE: Prices vary and are either freight collect ized depending on producer and location		isobutyl acrylate, tanks, frt. alid. E ib. isobutyl alcohol, tanks, divd ib.	.71 .29	Ξ	n-Laury Lavano
Hydrocortisone acetate, micronized, dms., 25 kilos or more . gram	-	lisobutylene, 99%, tanks, f.o.b. worksb.	.32	-	Lavend
Hydrocortisone, alcohol, micronized, dms., 25 kilos or more . gram70 Hydrofiworic acid, arthyd. (see Hydrogen fluoride)	-	isobutyi isobutyrate, tanks, f.o.b. worksib.	.421/2	-	selec Lavenc
Hydrofluoric acid, Equeous. 70% tenks., f.o.b. frt.		Isobutyi methacrylate, tanks, divd lb. Isobutyi phenylacetate, dms lb. Isobutyi salicylate, dms lb.	.87 3.10	3.50	80kg
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works, 30% basis	140.00	tanks, divd	.35 No Prk		te.
Hydrogen bromide, anhyd. cyls., extra. 30,000-bs., f.o.b. works b. 7.00	-	tanks, same basisb. Isobutyronitrile, dms., c.1, f.o.b. works	.76	ve2	Lead c
Hydrogen chloride, anhyd., 50-lb. cyls., c.1., worksb65	-	frt. collect	.84 .75	_	Lead o
600-lb. cyls., o.l., same basisfb62 Hydrogen chloride, anhyd., lube tral-	-	laceuganol, dmaib. Isoniazid, powdkilo	5.20 12.00	5.60	Lead f
ers, selfer's trailer, min. 100,000 bs. a year b	- 1	isonicotinic acid, hydrazine (see isoniazid) isononyi alcohol, dms., t. i ib.		_	Leadin
Hydrogen chloride anhyd., tanks, works	_	iso-octyl alcohol, tanks, divd ib. isophorone, tanks divd ib.	.44 .81	=	Lead r
Hydrogen cyanide, iiq., 99.5%, tanks, works	_	isophthatic acid, 99%, bulk, f.o.b., Jollet, III., min. frt. alkl lb.	.48	_	Lead n
Hydrogen fluoride, anhyd., tank cars c.l., f.o.b., frl. equaldb687 Hydrogen peroxide, 35% tech., tanks,	5 -	isophthalonitrile, bgs., t.l., works ib. isopropyl acetate, tanks, divd ib.	2.65 .47	-	Leadn
works, it. equaldb232		Isopropyl elcohol, anhyd., 99%, tanke, divdgel.	1.38	_	Lead p
50% tankcars, frt. equaldb322 70%, tankcars frt. equaldb45	5 -	refd., 95%, tanks, divd gal. refd., 91%, tanks, divd gal.	1.31 1.25	_	Lead
Hydrogen suffide, Itq., 99.25% min. seller's tanks, worksb12 170 ib. cylindersb. 2.27	.13	isopropyi ether, tanks, divd ib. crude, tanks, divd ib.	.44 .37	-	Lead,
Hydroquinone, photo grade, consum- ers. c.l., Ll., divd b. 2.54	_	isopropylamins. (see Mono-, Di- or Tri-). isopropyl myristate, dms., t.l., E, ib.	1.19	1.50	Lead s
tech., dms. c.l., dvd b. 1.95 Hydroxyacatic acid, tech., 70%, tanks,	-	Itaconic acid, retd. bgs t.l ib.	1.45	1.48	Lead
Beile, W. Va	<i>h</i> –				Lead,
f.o.b	fonic acid).] _ [Lead,
Hydroxybutyl methylcellulose (visc 12,000 cps) 50 lb. bags, ii., ci.		V			Lead,
30,000 lb. min., divd., zone 1	-	Jacki, paste, dms., works, 100% ba-			Lecith
dms	-	Biskilo Japan wax.csib.	4.75 5.50	_ 5. 6 0	unb
f.o.b. works lb. 4.10 Hydroxycitronellal,	-	Jojoba oil, 55-gal. dms., f.o.b. Arizona producing point gal.	55.00	60.00	edil
natural, cms. b. 9.40 pure, dms. b. 13.60	=	Juniper berry oil, Italian kilo	47.00		unb
extra grade, dms	- 2.12				Lemo
Hydroxyethyl cellulose, Ll., civdb. 2.07 Hydroxyethyl methylcellulose (visc. 5,000 through 45,000 cps.) 60	2.12				Lemo
lb. bags, t.f., c.l., 30,000 lb. min., dwd., zone 1 2.73	-				Grue dl-Leu
Hydroxypropyl methylcellulose, pre- mium, U.S.P. (visc. 4,000		Kaolin, water washed, fully calcined,			Licori gra
through 15,000) 50 lb. bags, t.l., c.l., 30,000 lb. min., dvd.,		baga c.l., f.o.b. Georgia ton NF pwd., colloidal, bactaria con-	255.00	-	Ligno
tydroxypropyl methylcellulose, U.S.P (visc. 50 through 100 cps) 50	-	trolled, 50 lb. bags., 5,000 lb.	.24	_	Lime
Rb. begs, t.l., c.l., 30,000 lb. min., divd., zone 1 2.99	_	Kaolin, uncalcined. No. 1 coating, bulk, o.l., f.o.b., Georgia ton	94.00	_	Lime,
4,000 through 15,000 cps) 50		No. 2 coating ton	76.00 73.00	_	1
b. bags, tJ., c1, 30,000 ib. in., divd., zone 1	-	No. 4 coeting ton	70.00	-	Lime, Lime Ha
Hydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, t.l., c.l., 30,000 lb. min.,		delaminated water washed, uncal- cined paint grade 1 micron	58.00	-	ex Ume
clvdzone 1	-	avg., same basis ton dry-grd. airlioated soft, same ba-	182.00	-	d-Lin Linak
Hypophosphorous acid, punif., 50% drss., c.l., works	i -	Stston Karaya gum, No. 1, powd., bblsth	60.00 2.25	-	Syr Linal
		No. 2, powd., bbis	1.95 .491/2	- .51	Linai
		-			Sy: Lined Line
					Line
		1			Lina
Ichthammol NF. 200-kilo dms ib. Iminodiscetic acid, 96% min., dms., c I , t I., works ib. 3.0					Line
c I . t I., works		Lacquer diluent petroleum, 140F			Lina
more, I.o.b. works kto 17.5 lodine, crude, dms	0 18.00	200F. b.f., t.c., New Jersey and New York	1.25		Und
lodine USPb. 14.2 lodochlorhydroxyquin, USP, XVI 60-		Houston, Texas		-	Line
kilo dras., 100-499 kilos, frt. alidkilo, 36.0	0 45.00	240F. b.r., tankcars, New York and New Jersey gal Houston, Tex gal	1.20	1.25	Line
lodoform. NF, dms., 300-lbs., f.o.b. worksb. 24.6 a-kynone, dmsb. 18.2		Works	100		Un
b-tonone, drns	10	tech, 88%, t.c., (rt. equald	62	-	Litti
irish moss, bleached, prime, whole	55 .60	Lagrose, edible, reg. bga., c.l.	90	- 28	Litt
fron blue, alkali-resistant, bgs., i.c.i., ton lots, div. E	70: -	ecticid		.co .69	- ա
fron blue, reg., bgs., l.c.l., ton lots, same basis	0 2.15	Lactose, USP, spray dried, bgs., t.l. ht. squald.	3 - 1 - 5 " - "	10-	j.
36 CHEMICAL MAR	KETING F	LEPORTER August		nius is	
			1.526.71	-1.	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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ce C, red toner. (red 53) bbls., frt.	E 70		Lithsunthydride, c I , t I , divd. 10,000 or
aldib. notin, anhyd., cosmetic. 400-ib.	5.70 · 1.18	1.25	Lithium hydroxide, manohydrate, dnis , C i , i.i. divd. b. 1,93
oms., worksb. pharmacoutical, 400-lb. dms. workslb.	1.15		Lithum hypochorito, c I, II, works.ib. 1.07 Lithum motal, 1,000-ib, lots or more.
tech., (under 2% f.f.a.), 400-lb dms., works,	1.08	113	Lithium nitrate, tech dms 100-th
rd (See Oils, Fats & Waxes market repr rd oil, No. 1, dms., c.l., 1.o.b lb.	.34		Lithum steamto, bgs. c 1, frt. alid. lb. 3.25
anks, same basisib. rd oil, extra, winter-strained, dms .	28 .41		Lithlam sulfato, anhydrous, t.t. divd. b. 3.09 Lithol red tonor, barrum, dms., frt. alid
c.i	.33	-	colonin, days samo basis b. 3.50 Lithol ublue toner (red 57), restnated.
sis, Chicago	.43	-	drus, frt. alld lb. 5.60 Locust bean gum, pawd , bgs lb. 6.00 sz
sis	.35 Toxan, 2c.,	– ਆਪ West	2.4 Lutdano, dms , 11, fit equald kilo 5.75 Lycopolium, 50-lb dms
Coast, 3c. higher. urel leaves, Turkish	.60	60	1-Lysine monohydrochlorido, feed grado, 10,000 liss divd lb. 1,35 tul
urent's acid, drums, f.o.b lb. uric ecid, comt, pure bgs., c.l lb uric aldehyde (aldehyde C-12).	3.85 .65	.71	
dms	7.75	-	
workslb. wandin oil, Abriells, 30-32%, dms. lb.	1.72 4.00	-	
vender flowers, ord	.65 .80	.75 90	Maco, Enst Indon, cittings, b. 495 5m
select. bls	1.10 9.25	1.19 13.50	Maco, Enstitution, cittings, 10. 495 500 Siauw #2 1b 5.60 576 Magnosia, tech , light, neuprone-
spike, Spanish, dms kilo ad acetate, puril., flake. 400-ib.	15.00	22.00	grado, bgs , c1 , t1 , works lb75 ,61 ; Magnesia, syn , tech., chemical-
dms., works lb. tech., flake, t.l., 400lb. dms.,	.46	-	grade, bulk, cl. t.l. works
worksb. and blue, basic, sulfate, bbts., c.l.,	.37	-	bags, c i , t.l., same basis ton 365.00 - deadburned, bulk, same ba- sis ton 392.00 -
ship,t.pt., f.o.b	.87 :arbonate). 3.25	_	bgs. same basis ton 409.00 - Magnesia, nat , tech , heavy, 85%, 150
ead dioxide, tech., powd., 200-lb. dms., 1.l., works lb.	.66	- .70	mesh, bulk, c.l. 11, f.a.b. Nev ton 232.00
ead fluoborate, liq. conc., dms., t.l., works, frt. equaldlb.	.65	_	90%, 325 mesh, same basis . ton 265.00 - Magnosium bromide, 80-lb dms , hex-
ad metal, divd	.18	.1872	ahydrate
f.o.b. workslb. coarse, bgs., c.l., same basislb. ad naphthenate liq., 24% Pb. dms.,	.58½ .57%	Ξ	oquald
frt. alldib. ad nitrate tech., cryst., 400-lb. dms.,	.93	-	USP, heavy, Egs., c I., same basis . lb. 83 Magnesium chloride, anhyd., 92%,
t.l., works	.321/2	-	flake or peoble dms., c.l., works. lb12% .15 Magnesium chloride, hydrous. 99%.
ed red, 95% Pb ₃ O ₄ , or less, bgs. c.l., works	.37	-	Magnesium chlorud, hydroxis 393, 144 - 144
works	.371/2	-	f.o.b. works, E ib. 4.25 Magnesium hydroxide, NF, powd.
basisib. Bad silicate (see Lead, white, basic sili	.37½ cate).	.40√₂	dms., c.l., t.l., works itt.
ead silicochromate, bgs., c.i., worksb. ead sulfate (see Lead, blue, basic si	.35	and uables	Magnosium lauryl sulinte, tanks, f.o b. works
basic sulfate) ead, white, basic carbonate, bgs., c.l.,		vou, Willu,	10,000-lb, lots or more 1 a.b. Froggert, Tax lb 1.53
frt. alidb. ead, white, basic, silicate, bos., c l	.62	-	Magnoshim nitrate, tech. flake. 250
same basis		-	Ib. dms . I I., works lb 32 Mignosium oxido, USP, light, bgs., c.l., works, frt. equali 1 lb 1.85
same basis	.85 .36	-	heavy, dus., c.l., sanu basis ib. 1.54 Magnesian exide, tech. (see Magnesia).
unbleached non-ret. dms., i.c.i., same basis			Magnesium phosphate, wibasic, lech. 60-lb bgs., Lob lb. 1.00
edible, tech. bleached, non-ret., dms., t.l., workslb.	.28	-	Magnostum silicofluorido, bgs., c.l., t.l.
unbleached, non-ret., dms., t.l., same basis	.26	-	Magneskim stoarato bulk, t.l lb
Braziiib. Calif., USP, dmsib.	6.50	7.00 9.35	salta), tech. bgs., t.l., works
italian	11.25	-	USP, cryst., hus , squar bosis . b. 131/2
Guatemalan, dms	60.00	90.00 .50	Magnosium sullute, 17% Mg. (syn-
gran., bisib.	70 95	.90	CP. sonio bosis
Ignosulfonate (see under Ammonius fonate).		m Kynin sul-	Mingnesium sulfute, anhydroue. CP bga , t.l., works lbs. 1.76
lmo, chemical, pobble (quicklimo) bulk,50,000 lbs., works, f.o.b plantstor		45.00	Magnesium sulfate triliydrate, tech., 46 - bps., t t., works b
ime, chemical, hydrated, bulk, same basistor	9 1 48.00	50.00	dms. 5,000-lb. lois
bgs., same basis tor irne, NF, puril., 100-lb. dms ib	69	57.00 -	Majothion, tech., dns., t.1., works. b. 1.62
Lime off, dist., Mexican, dma	. 0.00	=	Maleic scid, cryst., powd., drums, 100 kilos, f.o.b. kilos 3.20 drums, tons, f.o.b. kilos 2.80
Ume saits (see Calcium). d-Limonene, dms	n .70	.85	Maloic anhydrida, bga., t.i., works, ir
Linalooi ex bols de rose oil, dms ib syn., 98-100% dms., f.o.b. works ib Linalooi oxide, syn., 55-gal. dm ib	6.35 2.93	-	Malic acid, purif, and look grades, 50-
Linalyi acetate ex bois de rose oil, 90 92%, dms.	-	- 21.00	ib. bgs., t.i., c.i., divd ib
5yn. 98-100%, dms., f.o.b. works. It Linelyl banzoate, syn., 65-pst, dms. It-). 3.10 N 8.00	-	Manganasa analala dihydrata dms.
dms	l. 50.85		tetrahydrate dms. t.l., dlvd lb. 48 180
Linalyi formate, syn., 55-gel. dms it Linalyi isobutyrate, syn., 55-gal dms	l. . a so	8.50 8.56	Manganese borate printing in the 12 80 Manganese borate, lech., ding. 15 Manganese carbonata, chamical
dwd.	3 4040	6.55	grade, 46% Mn. bgs., 20,000
Utwi (acu., GWS., I'l		_	Manganese chloride, annyd., ullian 61
dma	i. 5. 7.90	_	Manganese dioxide, nat., Affican, po- 74%-76% MnO ₂ , 100-lb. bgs., 200,00 ton 200,00
Linseed meet (see Oils, Feta & Wayse	.00	.85 1.15 on).	84% MnO _s , same basis ton 250.00
Linseed oil fatty acid, dist., dma	narket repor	1) .67	tery grade, advocate to
Utharge, com.i., powd., bgs., c.	b63 l.,	.62	chemical, terms grace, early b.
lots divi	X1		100-ib dims., (.o.b. Works, b.
Lithum carbonate, powd, box o	b 4.00	<u>-</u>	Manganese mypoprostrated in the Str.
Lithium chloride, anhyd., c.l., t.	b. 1.50		Manganese metal, electrolytic, No. 33% chip, bulk, o.l., works. b. 4456
soin., dms., c.l., t.l., divd. Lithtum fluoride, dms., c.l., t.l., divd.	0. 3.92		Gine , C.I., WORKS
The state of the s	0.000		Manganese naprimentus dina. divid

Marganese resinate, fused, 3½% Mn.		Mothy
CIIII III III III III III III III III I	-	4 4, P
precp. 612-745 Mr. unis. Manganese sulfate, fertilizer grade, Manganese sulfate, fertilizer grade, mp-of-pia, 75%-78% MinSO, 25 kijo bgs., 50-ton cars, divd. 25 kijo bgs., 50-ton cars, divd.	_	pani Methyi
E. of Miss. ton 280 00 but, hopper cars, same basis ton 245.00 but, hopper cars, same basis ton 340 00 Manganese sulfate, 28% Mn, gran.	-	Mathy
pgs. 61, this 6% Mn, dms.	-	Mothy
m. alid	•	Methy a Meth
Works kb06 Marjoram, Franch ib60	87 78	p Mat Methy
MBT (see 2-Mercap (doer izoli dazeno).	i	Mea.s
Holigee Diphenyrmentians 4,4,501	59%	0.39
huk, C.I., I.I., same pasis	58 60	rub
miding compounds, same ba-	-	Millo
Menhaden off, crude, territs, works At-	15 .15	
Outports, same basis lb		Mines
us USP recernic 100-450 lbs lb. 9.00	7 50 -	{
2-Marcapiohenzothiazota, uga., t.i works, frt. alid	1.55	USP
Mercaptobenzothlazyl disulfide t.l., ons. works, frt. ald ib. 1.33 Hercuric chloride NF, gran., gowd.	1.66	ا
100-fb. dme., f.o.b. works., fb. 6.50 Mercuric oxide, red., purif., 100-lb.	- 7 25	Mine
one, f.o.b. works	7.00	Mino
yelow, NF, 100-lb. dms., same ba- sts	7 25	Moly
tech., 100-lb. dms., same ba- sis	7 50	Moly
Mercury, ammoniated (see Writte precipitate USP X Meakyloxide, tanks, divd	·V) -	tre
Methácytic acid, glacial, 99%, drns., Li., fri. equald	-	tan Mody
d-Methamphetamine hydrochloride, dmsb. 12.00	16.00	Mon
d-Melhamphetamine hydrochloride, dms	7 00	
r.o.b. producing coint. Guif	7117	Mon
Mathenamine (see Hexamethylenetetramine) Mathenine hydroxyanalogue, dry.		to
equio, 86% activity, t.i. frt.	•	Mor Mor
Methoxychlor, 50% wattable powder		Mor Mor Mor
dealers dms	_	Mest
ret. dms., i.o.i., same ba-) <u>.</u>
Methyl acetoacetate, East, divd.	-	Min
Methyl alcohol (see Methanol)		Mo
Methyl anthranilate, tech dos		Mo
Manual Date of the Late	2.05	1
99.9%, perl, grade, dms., t.l. lb. 25 99.9%, perl, grade, dms. t.l. lb. 1.05 Methyl bromdel, dist., tanks, 140,000 ibs. min., fri. etid. lb. 564 Methylcathulose, premium, USP (visc. 400 through 4,000 (ps) 50 lb. bage, tl., cl., 30,000 lb. mis		Mo
400 through 4,000 cps) 50 lb. bags, 1L, cl., 30,000 lb., min.,	•	Mo
Methylcefulose, premium USP (visc. 15 cpe) 50 lb, bags, II cl. 30,000 lb, didd. zone 1 cl. 30,000 lbs,		
30,000 ks., divd., zone 1. lb. 2.86 Methylcellulose, (vieg. 400 theoretic	٠,	Me Me
4,000 cps) 50 lb. bgs., il., c		يرا
b. bags, il., cl., 30,000 lb.	-	Mc Mc Mc
i.o.b. works bulk, tanks,	-	Mi
		Mi Mi
mailmaireanai on the control of the	5 -	M
works.	_	М
Methylhenenol, syn., 55-gai, dans ib	- ·	M
Methyl hepitin carbonate, dims b. 7.30 Methyl p-hydroxybenroste (see Methylparaben) Methyl noros, std., dms b. 45.00 Methyl noros, std., dms b. 47.20		M
Metryl lorons, std., dms. b. 7.36 Mathyl locarnyl ketone, tanks, divd.	9.40	
Wethyl solved terbinol (see Methyl source))). 	11
Man Total (CENT)	•	
Methyl methacrylate, tanks, ched in 6.61	0 10.40	N
drie. Henryparanen iven	_	N
Lo.b. Lo.b. kilo 10.1 kech, 500 kilograms, I.o.b. kilo 10.1 Metiji paratiton, tech, 80% drne 54	4	
Mother and C	_	[]
plant plant 3.6	6.40] \
1 Mathematica, Cl., Ll., same hard D. 1.2		
THE PROPERTY AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSM	7.	
Methyl violet (see Methyl rosesmiline chloride). 1.7 Methyl violet (see Methyl rosesmiline chloride). Methyl violet (see Methyl rosesmiline chloride). 1.7 Methyl violet (see Methyl rosesmiline chloride). Methyl violet (see Methyl rosesmiline chloride). 1.7 Methyl violet (see Methyl rosesmiline chloride).	⁷⁹ : 1.94	
Rockies, b. 3.6	25 _	्या
20 (43)	100	

thyl say'd lover than it the			1	Naphthol arylide red toner deep
Title State hale: C Medhylene donnlene (p		4 70	5 20	Shartes, bbis
anurodiphenyl (tel crist), das , 11-f a b	45	1 75		2-Naphthol-3,6-disuifontc acid, disodium sett (see 1-Naphthol-5-suitonic acid (see Lacid)
agul - Rager, seusach a es Rigidenica poplografie controla	ነው (ዓመት ነው	- 2-25 en dighenyk	- nvethano	1-Naphthol-5-sullonic 8-amino acid (see S acid). Naphthylamine sullonic mixed acid (see Cleve's a
d 4 skirteryanaloj Historio obsado, tanks 4 fid	k) (J II			a-Naphthylamine, tenks, f.o.b. works
folit i genanger i mi miyan Hersbleten munggan	iilb Ooracoli	35	-	1-Naphthylamine-5-sulfonic acid (see Laurent's e 2-Naphthylamine-4,8 disulfonic acid (see Cassell
dhylphonytoryazistoras (sele 1 5)		methyl pyr	azokono-	2-Naphthylamine-1-sulfonic add (see Tobias ack Nontstoot oil 20°F, t.i., t.o.b. works
Johnshiptona, Lo b., Slopping Johnshiphthytona, Lusic Wor		44 1 38	:	dms
वीद्राप्तिक वाच्या र धिवस्त्रीतः चन्द्र देवि त्यु स्पृत्र सुरती , हिन्तीर वाचन्या, होत्	thyšem th			30°F, t.t., f.o b. works
the layer of weeks the order of the 60	lb	0712	-	40°F, dms , t.i , t.o.b, works lb
West his	lb	.07		Delivered prices apply on shipments within 300 Philadelphia, Pa.; other greas, 1 Vac. hig
painter land, wat grid 1925 type of the blacky	Ri	16%	-	higher and West Coast 3c. higher. Neomycin sulfate, USP, non-sterile,
mbler, bgr, cr, forbosode welpsportig, cr, forbos	yks lit	164 22	-	dms , 50-kilo. lota, activity ba- sis, divdkilo. 76.0
merystallenewae jediolom mg grades: FOA			_	Neopentyl glycol, slurry, 90% c.l., t.l., dlydb5
works Lumnalog graden FOA	lb . t.vikn.	36.1	4612	powder, flake, bgs. t.t., divd ib
works neral oil, whith, SO 65 set . U	lh SP1ght	.3812	.48	porf.grade.dms
Tanks, ruly 65-75 visit, tanks, refy	ប្តីរា ប្តីរា	2 38 2 42	-	bots
80 90 vm , tanks, cely 145 155 vm , tanks, cely	gal gal	2 45 2 53	-	Nerolidol syn. 55-gal, dma lb. 7.0 Nerolin, Bromelin kilo 7.3
SP 180-190 vm , tare si refy 200-210 vis , tanks, refy	gal gal	2 54 2 56	-	Niacinamide, USP, t.l. dms klio. 8.0 Niacin NF, dms., 5,000 kilos or more,
340 350 vis , tanks, refy ineral spirits potroleum, or	ğaı	2 65	-	dvd 7.4 feed-grade, 98-99.5%, bgs., same
tanks, Now Jersey	gaj	1 83 1 78	1 BB 1.79	basis
Houston, Tex Inoral spirits, patroloum, i			1.49	Nickel acetate, dms., 5,000-lbs. to t.l., dvd E
tanks, New Jersey Houston, Tex	ñaj Ga	1 41	1.43	Nockel carbonate, dms., bgs., 5,000- bs. to t.l., divd. Eb. 3.
lolybdate orange 144- lolybdenum metal, com L		1 52	1.95	Nicket chloride, bgs., 10,000-lbs. to t.l., divd. Eb. 1.
99.8°s, dne, warks Jolybdonum triocobe CP	ib dais .	13 50	-	Nickel fluoborate, liq. conc., dins., t.l., divd. E
works, 24 to the lotter, of tech , chemical, doc 24,00		5 25	-	Nickel metal, electro cathodes, cs., works
tech metalogical discounter	ાઇ વેદ્યકૃત છે	2 65 2 65	2.85 2.85	Nickel nitrate, dms., bgs., t.l., divd.
folytide, acat (See Ame - e on Conntromonique, phose sout	n Danvolyte:	late)		Nickel oxide, 75%-78% Ni, dms., 500- ib lots, f.o.b. worksib. 2
grade, nun 11 N bulk, cl. tob	5214 P			Nickel suifate, bgs., t.l., dlvd. E lb. Nicotinic acid (see Niscin).
works Jonoanmonum phosphale	lon	155 00	-	Nicotinamide (see Niacinamide) Nitric acid. 36° Be , 38°Be, 40°Be, 42°Be tanks, c1, works NF,
byn clitt wo		54.00		100% basis ton 199
food grade, byn., cl., 11, 5		59 25		9417% to 98% HNO, tanks, works, 100% basis 100 28
dono tart-butyt m cross-l. keil dano tart-butyt m cross-l. keil		1 69 96	1 00	o Nitroanlino, flake, dms., 11. works. lb.
dom dagglannen, belte, divi) dom dibroscope nent gruit ((suo Chlor			molten, refd., tanks, works lb. molten, tech., workslb.
done hierobonzeno tunks, f donaethau ilamina, tunks,			.46	o-Nitroaniino, orange tonor, bgs., irt. alid b. p-Nitroaniine, dms., c.l., t.l., 30,000 ib.
િ Versoethylaming, 70% હાલુકાન		.43	.40	I min works ID.
fit prepart, 100°ta anhyd , tanks, sano basis	10	94 92	-	o-Nitroanisole, 100-kilo lota kilo Nitrobonzene, tanka, f.o.b ib.
Mersolsopropanolamino, dima allo E	.cl.frt	.76	-	o-Nitrochlorobenzene, dms., t.l., c.t., f.o.b
nlid E tanks, samu tasis Monoisopropylanino, anhy	lh emb b	66	-	tanks, samo basis
c i fri propaki tanka Bamo basis		79 .76	-	ald. lb. Nitroothane, tanks, divd. E lb.
Monorsethylamino, ontryd , lf Tabool basin frt - Ogul	Pike, CON	5414	-	Nitrogen solutions, direct application, over 32% N, and mgf. type,
25% solo , tanko, fri d basis	M 1007	57	_	works unit-ton. direct application, 19-32%
40 60° noki , truski, fr 100° bash	t equation.	.63%	_	N
Moregerinssum gesternite, i its organo, fot olid.	iline . 990	2.50	_	esed, bulk, f.o.b. Chicagounition.
Mososodium alutamate, 59	B Ito 1998.	.76	.80	NOTE: Price is per unit NH ₃ plus \$1, per un producer, s works, Chicago.
r F. F. divd 178) to druma, c F. F. d Montavalumphotophotophotophotophotophotophotophot		85	nonobusic)	Nitrogonous tenkago, processor, semi-
Months was, grain, ind . Cit	יא. ואוורווי	.55	.67	ville, Wiscunit ton
don, Call, bys, C1, http://dimension.		.81	-	expanded, bulk, p.l., per unit-ton N, f.o.b. Forrestdels, R.I. unit ton
rold , don't Calif , region to Morphica michael, NF , 25 k3	018 K eo	1010.00	-	Nitromethane, dms., i.i., dlvd. E b. o-Nitrophenol, dms., i.o.b. works lb. p-Nitrophenol, dms., a.i., i.o.b.
Morpholiso, dan j.c.l., fcl. al	KIE., KO.	1.02	-	works
tanka, bit and F. Muratic acid (see Hydrochio	Ma ackii		7.00	m-Nitrotoluene, tech., dms., fri. alid. fb. o-Nitrotoluene, dms., ol., f.o.b
Musk syn ambrette, 25-lb Musk syn kelone, dms		10.75	-	lanks, same oass
Musk syn xylol dms Muskud sil, syn (see Allytis	OU NOCY PI 4	aral.	_	p-Nitrotoluene, test, b. b. tesks, works. b. b. tesks, works.
Mustard seed, Brown No. 1 Canadian No. 1 Yellow.	10	. 25		Nonylphenol, tanks, 1.0.0
Oriental No. 1 bgs	•		_	Maranhadrina hydrochlonous (see i north
Myristic acirt, comi , pure, t.i tanka			-	drochloride) Nutmeg oil, dist., East Indian, NP, kilo 2
Myristica oi (see Nutmeg of Myrrh gum, bgs	D.			Nutmegs, East Indian, whole
	·			
	<u>'</u> :	· · ·		
		• •		
Naphthe, high solvency (se	a Solvenii	aphilul, pe	(roleum)	Ochen (see kron oxide, yellow, net.)
Naphtha, VM&P., petrole	um. lanki	5.	mu 18) -	Ochre (see iron oxide, yellow, nat.) Cobles oymbarum of dms. 1-Octadecenol, syn.; tarks, f.o.b. b.
New Jersey and	MEN TOU	1.29	1.34	Octanol, syn., tanks, f.o.b.
Houston, Tex. Naphthelene, crude, dom	78° 164	1.20	4.7 (70)	1-Octadecenol, eyn., terres, tob., D., Hotanol, eyn., tarke, L.b., D., Hotanol, eyn., tarke, Larke, I.o.b., Houston, Tex., Houston, Tex., Octyl sicohol, perfumer's grade, bots, che.
Works.	anhydrit	la i		Octylecohol periumer's grace, colision octs n-Octyl, n-decyl contratate, tanke, brother octylemine; tank, col., t.l., works octylemine; tank, col., t.l., works octylemine, tank, col., t.l., works
Waphthalens, patroley	KB	5 21	W	Ovo.
<u></u>		ы 80 Ма	321	lert-Octylemine-cond, moltan: t.o.
Naphthalena, refd., balls, f salers., jobbe	in den	b. Bi	1.2.17	Official of , liq. data
aphthelene, rejid., biras, n a allere p.b.be works Naphthenic acid, crude, bu refined, 220 acid, seriei a Naphthel, igotant, driss, b Naphthel, igotant, flake, 30	d works	b 1	1.00	Octylorienol, moltan: 1.0. North Cotylorienol, moltan: 1.0. North Cotylo
a-Naphthol ground, drift,	dvd	b 1.8	k in salahi Kanadah	Oleto sciel, s. d. (red) dans. Bu
Works	i i e i i j	6 5 3 4		August 18,1986.
the company that is a	at	A		からい さんへん ボルイヤイ いぼうせん ニジッグ テー語 全営

	والمساوا والمناوات والمساوات والمساوات والمساوات والمساوات			
, I	Naphthol arylide red toner deep		1	
·	light shadas, hbis 15. 7	1.50 7.75	- 1	
l	2-Naphthol-3,6-disulfortic acid, disodium sett	.ro (588 Sten	m. I) f - b. d E., B. S
	י יאמבאיינייטייט-ט-Sunonic acid (see L. ackf)		T	
iano	t-Naphthol-5-sullonic 8-amino acid (see S ac	kd).	1	I WI I I I I I I
ן עיומי	Naphthylamine sulfonic mixed acid (see Clev a-Naphthylamine, tanks, f.o.b.	8 8 BCKQ).		
ļ	WORKS In 4	2.10	- 1	IRRIAL
l	••NaDittiviamina-5-sulfonic acid (see Laures	nt's acid).	_ 1	Lake 18 - 18
ono-	2-Naphthylamine-4,8 disulfonic acid (see Ca 2-Naphthylamine-1-suttonic acid (see Tobias	SSOUR RCIC	1).	PRIVE
uno-	Nontstoot of 20°F, L., I.o.b. works	s scroj.	į.	
	cmskb.	.52	- 1	INCOME AND ADDRESS OF
	tanks, f.o.b. works	A7	- 1	WEEK ENDING A
	tanks, to b. works	.52 .44	- I	
	40°F, dms , t.1 , 1.0 b, works lb.	.48	.49	Oleum (see Sulturic acid, furnin
	lanks, 1.o.b. works	.39		Olibarium gum, tears, bgs Olive oil, edible, Spanish, dms.
	Delivered prices apply on shipments with Philadelphia, Pa.; other greas, 1 kg	n 300-mile • blobar T	redusof	Italian B-type
	higher and West Coast 3c. higher.	vindinas, i	9443, 26.	Olivine, crude, works
	Neomycin sulfate, USP, non-sterile,			20 mesh. works
	dms , 50-kilo. lots, activity ba-	75 00		Oplum. USP, gran. powd.
		76.00	-	lots
	Neopentyl glycol, slurry, 90%c.l., t.l., dlydlb.	.522	-	Orange oil, expressed, USF
461.5	powder, flake, bgs. t.l., dvd ib.	.698		expressed Valencia, dms
48	Norol, tech , dmsb. porf. grade, dmsb.	5.30 4.60	5.76 5.00	Calif., dist., cns. I.o.b. plant
	Neroll oil, NF French Bigarade.	7.00	3.00	1 Florida, dma
•	botskilo 15		650.00	Brazilan West Indian, bitter, NF
•	Tunisian, botskilo 11		-	dms
	Nerolidol syn. 55-gal, dms lb. Nerolin, Bromelin kilo	7.05 7.22	_	Orange peel, bitter, Haitian bi
-	Niacinamide, USP, t.l. drtsklio.	8.00	_	Oregano, Greece, 30M
•	Nacin NF, drns., 5,000 kilos or more.			Turkey
•	Givd	7.50	-	Orlganum of, Spanish, cns
88	feed-grade, 98-99.5%, bgs., same basiskilo.	5.10	5.50	Orris root, Florentine, bis
.79	Nickel acetate, cms., 5,000-105. to t.i.,			powd., bbls., bxs
	divd E	1.82	-	Verona bis
49 43	Nickel carbonate, dms., bgs., 6,000- lbs. to t.i., dlvd. Eb.	3.46	_	Duricury wax, refd., pure, by
95	Nicket chloride, bgs., 10,000-lbs. to t.l.,	4.70	_	Oxalic acid, bga., c.l., works
	I divd. E	1.19	-	b-Oxynaphtholc acid dm
-	Nickel fluoborate, liq. conc., dms., t.l.,	4 25		tech
	divd E	1.25	-	Oxyclunoune base, pure,
-	works	3.45	-	Oxyquinoline suifate, 10
.85	Nickel nitrate, dms., bgs., t.i., divd.			elid
85	E	1.18	-	
	Nickel oxide, 75%-78% Ni, dms., 500- lb lots, f.o.b workslb.	2.60	_	
	Nickel suifate, bgs., t.l., divd. E Ib.	.80	.90	
	Nicotinic acid (see Niscin).			
-	Nicotinamide (see Niacinamide) Nitric acid, 36° Be , 38°Be, 40°Be,			
	42°Ba tanks, C1, works NF.			1 1
	100% basis ton	195 00	-	
	9417% to 98% HNO, tanks, works.	280.00	_	Palladium metal, works.
-	o tutroaniino, flake, dms., 11.	200.00		Palmoil, (see Oils, Fats &
1 00	L works	1.51		Palm oil acid, dbi-dist. on tanks
0110)	molton reid , tanks, works 10.	1.44 1.37		s.d., dms.
-	o Nitroaniino, orange tonor, bgs., frt.			tanks
	I ANA ./D.	1.90	-	Paim kernel oil, bulk
.46	p-Nitroandine, dme., c.t., t.t., 30,000 jb.	1.63	_	Palmarosa oil, Indian dm:
_	min., works fb. o-Nitroanisole, 100-kilo lots kilo	8.75		Palmitic acid, 80%, tech.,
_	Nuroboozene, tarikis, I.O.D ID.	.33	.34	Papavarina hydrochlorid
	n-Mirochlorobenzene, dms., t.i., C.i.,	.82	_	ing. bulk
-	tanka, samo basis	.74	-	Panrika Hungarian, 100 /
_	2.Niko-p-crosol, tach., dms., t.l., irt.			I Snanish, 110 AU DOS.
-	1 0161	1.75	_	Pareffin, fully-refd., 127-1
-	Nitroothans, tanks, divd. E b.	2.50	_	i 130-135 F., ASTM
_	Nitrogen solutions, direct application, over 32% N, and mgf. type,			140-146 F., ASTM
_	worksunit-ton.	1.20	-	150-155 F., ASTM slack wax, 5% of, 1s
-	I dieset annikonikon liiniskii	1,26	1.46	i 12% oil, tanke rety
	N			† 20% o¥, tanks-refy
-	I TARAK BUIK. I.D. U.		_	AMP temperatures ere a
-		4.10 11.00 taur	a bulk f.o.	b. Paratormakiehyde, 91% b. cl., t.l., divd
	NOTE: Price is per unit NH ₃ plus \$1, pt producer,s works, Chicago.	01 U.S. W.J.		95%, powd., bgs., c.
.80	1 Augreson of Lankage, processed, bulk,			Pareidehyde, lech., 98%,
otomatc)	1 MAPINICATION OF 1.U.D. COLUMN	. 7.00	-	(J., dlvd. E
.67	Mile, Wiscunit ton			Parathion, ethyl, dos., int.
:				i batalinou memini (see we
•		8.35 2.37		Para toner red, bbls chlorinated, (red 4) kgs.
~	Nitromethans, dms Li., divd. E b. o-Nitrophenol, dms., Lo.b. works lb.	1.00	•	Patchoui oil, indonesian.,
-	- Nicoshorol Offic. U.L. 1.0.00	4 000	1.45	I peach kemel of, USP (90€
-	L MARKE	1.05 65	1.45	Pearuit meat (689 Chis, Fai
-	o tileppossano fanka. Iti. 200, Ecc. 9:	1.15		Pearut oil (see Oils, Fats in Pectin donn, NF, citrus,
7.00	m-Nitrotoluene, tech., dms., frt. alid.fb. o-Nitrotoluene, dms., c.J., f.o.b	.65	-	kito tota divo
		. 48	.57	Petargonic acid, nat., ta
-		83	85	alki. syn., tanka, f.o.b. i
_	WORKS	.70	· -	Panicilia polassium, non
-	Nonyiphenol, tanks, f.o.b. E. of Rock- Nonyiphenol, tanks, f.o.b. E. of Rock- b.		691/	billion-unit lots.
	Nonyiphenol, tanks, 1.0.b. E. of Hock- ies, min. frt. ald	nviorone	notamina h	y. Penicilin, procesine, sterii
_	Norephedrine hydrochionae (age Frie			" I MALEKOLIS, DUPK
_ '	Ground Famt Indian, NF.		27.50	pentachiorophenol, 50-l
		26.00 2.90	4 A R.	1 1. 1.O.D. WHOTHUS CA
	Nutmegs, East moier, wrote.	.S.MO	2,00	 j Pentserythritol, tech., og:
				pertservitution di- and k
٠				. I. TOGERNBERYTHMO
		•. :	1.0	Pentaerythritor triacrytal
1 1		3.50	~ 2	l.o.b. works Pentobarbitat, dms., 100
	네 🍑 이 선생이 보고		7 8	
	the second second second	1. 3.	_	 Pentoharbital-sodium, dr
شس			1 1 P	1 or more, divid
um)- ;.	- to a loos ovide velicity, nat.)	0 9F	2.30	Pentylene tetrazol, NF, d
y (*)	Ocoles Company of the Principle Color	. 43	/Z'	Pepper, black, Brazilian, t
1.			7 f. 7	1
1.34	Octanol, syn., tanks, i.o.b.	. தக்க	4	Malabar bgs
- #"	Cotanol, syn., tarike, j.o.b., n. Octane, 97% min., tarike, j.o.b., pal., Houston, Tex., pal., tarike, pariumer's grade, bots.	0.20		Pencile rad Chinese Fulk
⊆Lati.	Linear John Partiamer Strates Linear Linear	4.40	1.76	Continues NAM

AICAL ES AUGUST 15, 1986

- 1	I WEEK ENDING AUGUST	10,	1900	İ
- 1				
.49	Oleum (see Sulfuric acid, furning).	2.10		
-	Oliberum gum, tears, bgs lb. Olive oil, edible. Spanish, dms gal.	8.50	-	
dusof	Italian B-typegsl.	5.75	_	
as, 2 c.	Olivine, crude, works ton	12.00	_	
	20 mash. works ton	15.00	-	
	100 mesh, works ton	20.00	-	
-	Oplum. USP, gran. powd. 25-kilo			
		25.00	-	
-	Orange cli, expressed, USP, Calif., dms., f.o.b. plant	1.20	_	
	expressed Valencia, data Rb.	1.00	1.20	
5.76 5.00	Calif., dist., cns. f.o.b. plant lb.	.40	-	
0.00	Florida, dma	.50	.55	
0.00	Braziliankilo	1.20	-	
-	West Indian, bitter, NF X, cns.,	0.50		
-	dms	8.50	_	
-	Orenge peal, bitter, Haitlen bialb. Oregeno, Greece, 30Mlb.	.38 1.15	-	
-	Turkey	1.15	_	
_	Maxicolb.	1.05	-	
_	Origanum oil, Spanish, cns kilo	35.00	-	
5.50	Orris root, Florentina, bis	4.00		
	powd., bbis., bxsib.	4.60	5.00	
-	Varona bisb.	3.00		
	powd.bba.bxs(b.	4.60 3.26	5.00 3.35	
-	Ouricury wax, refd., pure, bgs lb.	.44	3.00	
_	Oxalic acid, bga., c.i., works b. b-Oxynaphthoic acid dma. works.	.44		
	tech	2.55	-	
-	Oxyquinoline base, pure, 1,000 lbs.,			
	firt alleis	8.00	-	
-	Oxyquinoline sulfate, 100 lbs. frt.	4.00	_	
_	elid	7.00		
-				
.90				
	1 🖥			
-				
	Paladium metal, works Troy-o	z 138	DO:	-
-	Paimoil, (586 Ons, reta o vraves inte	. mar i seb	ari)	
_	L Palm oli scid, dibi-dist, dms		3172	_
-	tanks	10. Ib	.30 .42	.45
-	s.d., dms		35	-
	Paim kernel oil, bulk, c.l.f., U.	5.		
-	ports	40	11	.14
_	Palmarosa oli, Indian ding K	MO 30.		-
-	Palmitic scid, 90%, tech., bags	D	53 51	_
.34	fenks			
	l known fruite	ו.טפ כא	00 -	
	Penrika Hungarian, 100 AU bos II	bd	90 -	-
-	Paprika, Hungarian, 100 AU bgs II Spanish, 110 AU bgs	<u>ը</u> 6	ю -	•
-	Parellin, fully-reta., 127-1307 Activ	"•		35
-	h tooks folly			39
	130-135 F., ASTM, tanks, refy 140-146 F., ASTM, tanks, refy			111/2
	140-140 C., AO INI, ISINA, IOI)		1114	40

1.87 1.93 1.87 2.45

Cetylphenol, morran

works

Necles of Se, drie

Osolo sed, dol-tiet (white) drie

terita

Osolo sed, a.d. (red) drie

serie

Attribit 18 1986

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ST OF	
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				1 Polyagian toleran
	Phthelocyanine bise toner, water dis- persable, bbis., same ba-		Potaesium bifluoride, tech., dms., t.l., works., frt. equeldb45 .49	Potassium tetraborate, gran., bgs., c.l. works
CHEMICAL	sisib. Phihalocyanine green toner, ali grades,	7.05 7.76	Potassium bitarirate, NF, gran., powd., bgs	Potassium tetratborate powder 15c. perton higher
CUEMICAL	bbis., frt. alld. E. of Rock- ies	8.10 10.10	100-1,000 lbs., works lb 18.00 20 00 Potassium bromate, gran., powd.	tech cryst drys ti
BRIAFA	Phthajocyanine green toner, resinated, 6bls., same basis ib. Phthalylsulfacetamide, dms., 500- kilo	7.45 9.20	200-lb. dms., c.l., (.o.b. workslb. 1.06 -	Polassium tilanate, cins., c.i.,
PRICES	iots	6.61 - 2.81 -	Potassium bromide, NF., gran., dms., c.J. f.o.b. works ib. 1.12 -	Potassium-titanium fluoride, tech., dms., t I., works, ht. equadile, 1.24 1.59 Potassium-zirconium fluoride, tech.,
	Picricecid, pure paste, 25-lb. ctns., c.l., dry basis, f.o.b. Charlotte,		Potesstum carbonate, Itq., 47% K ₂ CO ₃ , tanks, t.w., works 100 lbs. 15.40 - tms ct. I.L. works 100 lbs. 20.65 -	dms., t l., works, trt.
WEEK ENDING AUGUST 15, 1986	N.C	6.00 - 5.00 -	dms., c.l., t.l., works 100 lbs. 20.65 - calcined, 99-100% K ₂ CO ₂ , hopper gars or trucks.	Produsone USP, data, 5 kilos or more
Perchiproethylene, dry cleaning grade,	sts, f.o.b. Charlotte, N.G lb. Pigment green B, kgs lb. Pilocarpine hydrochloride, USP,	2.20 -	works 100 lbs. 32.50 - bgs., c.l., t.l., works 100 lbs. 36.40 -	Prodesolone acetate, USP, dms. 5 kilos or moregram 1.12 Prednisolone, anhyd., USP, dms., 5
distr., tanks, divd lb28% - Indust., grade, consumers, tanks, divd lb31 -	dmsklio. 1.	,500.00 2,000.00	Potassium carbonate, hydrated. 83- 88% K ₂ CO ₂ , dms., c.l., t.l.,	kidos or more gram 1.12 Procaine hydrochloride, USP, antibi-
divid	Pintento leaf oil, dms	14.50 -	works	otić grado, dms., 2,000-ib, lots, frt. alid
salts, dms., fit. alid ib. 5.25 — banum salts, same basis ib. 5.25 —	bulk, f.o.b. works 100 lbs drns., c.l., t.l., same	47.00 53.00 51.00 54.00	Potessium carbonate, gran., puril. 400-lb.dms, 5-dm.lots. lb40 .46	USP, ampule grade, dms., 1,000-
Peru balsavn, f.o.b	basis	1.82 - .18 .23	Potassium chlorate, cryst., dms., c.l., works	Propionaldehydo, tanks, f.o.b
Petroistum, USP, snow white, das., c.i., refyb375 - tanks, refyb310 -	b-Pinene, perfumery grade, tanks kito tech, grade, tanks	2.30 - .35 .40	purif., gran., 325-lb. dms., f.o.b. shipping point	n-Propylacetate, tanks, divd , b
USP, soft white, dms., c.l., rety ib	Piperazine, anhyd., dms., t.l., frt. alid. E	1.80 -	Potassium chioride, chemical grade, 99.95% KCl, bulk, c.l., f.o.b	n-Propyl alcohol, tanks, dvd lb42 .44 n-Propyl gallato dms . 100 to 2,000- b.
USP, By white, dms., c.l., refy lb	Piperazine citrate, 36%, dms., 1,100- ib. lots, frt. alidib.	2.25 2.35	works	n-Propyl-p-hydroxybenzoate, USP, 500 kilos kilo 10,80 -
refy	Piperazine dihydrochloride, 53%, dms., Li., iri. alid	2.00 -	USP gran., dms	tech., 500 kdos, f.o.b kilo 10.36 -
USP, soft yellow, dris., c.l., refy., b	1,100-lb. lote, irt. alid lb. Piperazine phosphate, 42%, dms., t.l.,	1.60 -	Potassium chioride, agricultural (see Potassium muriate). Potassium chromate, purif., cryst., dms., works	Propyl paraben (see n-Propyl-p-hydroxybenzoale) Propyl thlouracil, dms., 50-kilo tols or more
USP, amber, dma., c.l., refy b	frt. aldb. Piperkine dist. 98% min., dms., c.l., t.l.,	1.80 -	Potassium citrate, NF, gran., 200-lb. dms., frt. alidlb93½ –	n-Propylamine, dms., c l., dlvd ib
Petroleum pitch (see Asphalt, petroleum). Petroleum sulfonate, 60-62%, sulfonic cont., HMW, bulk, works lb48%49	workskilo. Piperonyi butoxide dms., divd. Eb. Pistinum, metal, works Troy oz.	6.92 - 5.00 545.00	Potassium cyanide, dms., 20,000-fb. lots or more, f.o.b. works ib. 1.32 -	chemical grade same basis fb
MMW, same basis ib4949 .40 .40	Polycarbonate resin, pelleta, nat., i.i., frt. alid	1.84 1.86	Potassium dichromate (see Potassium bichromate).	USP, tanks, t.o.b E
Prices for 51% autionic content 2c per lb. lower on corresponding molecular was.	Polyester resin, unsaturated, g.p., or- thophthatic, bulk, tankcars,		Potassium fluoborate, tech., dms., c.l., I.l., works, frt. equald lb. 1.40 1.42 Potassium fluoride, anhyd., dms.,	tanks, divd. E
Phenacelin USP, powd., 200-tb. dms., 1,000-tb. lots, divd b. 2.20 - 100-tb. dms., 1,000-tb. lots, divd. b. 2.22 2.45	frt. alid	.51 .53 .56 .62	t.l.,	Paylium seed, USP powd bgsb. 1.50 \155 Pumice, dom, fine, 4F-0, bgs, ton
p-Phenetidine, dms., c.l., f.o.b b. 2.00 - Phenobarbital, USP, dms., 500-kilo	molding, g.p., hopper care, frt.	.43 .46	works	medium, 0½-1½, bgs., ton lots ton 300.00 -
lots., f.o.b. works kilo 19.60 - Phenoparbital-sodium, NF, 500-kilo	Injection molding, g.p.,hopper care, frt. ald	.43 .46	Potassium gualacolsulfonate, 300-lb. dma., 600 lba. or more irt.	coarse, 2-extra coarse, bgs, ton
iots, f.c.b. works kilo 27.00 – Phenoi, syn. tanks, int. equald b25 .29 p-Phenoisulfonic acid, 65% soin.,	extrusion, g.p., hopper care, same basis	.47 .48	equald	Purnice, Imp., Italian, fines, bgs., ton lots f.o.b. East Coast
tanks, same basisb58 -	same basisib, wire and cable, black, same ba-	.45 .49	rotassum nydroxide, USP, peners, 100-lb. dms., c.l., t.l., works, frt. equatdb. 1,29 1,31	Coasiton 350.00 -
Phenothiazine, indust. grade, 50-lb. bags, c.l., f.e.b. worksb. 2.33 -	sis	.551/2 .57	Potassium lodide, USP, gran., cryst., dms., 1,000-lb. lots divd lb. 10.72 12.39	Pyrazolone rad (rad 38). dms.,
purif. grade, same basis b. 2.69 — Phenyl acetate, dms., 100-lb. lots, works b. 1.04 —	finer, hopper cars, frt alld fb, clarity film, hopper cars, frt.,	.36 -	ACS grade truckload lb. 11.32 13.55 Potessium-magnesium sulfate, std.,	Pyrethrum flowers, line grd. 0.9% overthrins, ton lots, fri. alld.lb. 1.91
worksb. 1.04 – Phenylacetic acid, pure cryst., 25-b. cnsb. 4.50 –	alid	.37 – .35 –	bgs., works	Pyrethrum, purif., 20% pyrethrins, dms., works
di-Phenylatanine, dms., 25-kilo lotskilo, 84.00 -	extrusion coating, hopper care, same basis	.38 .42	MgSO ₄ bulk, works ton 67.00 - Polassium melabisultate, gran., drus, t.lbb44 -	Pyridine, retd., 2-deg., c.t., works dms., kilo 5.90 -
1-Phenyl-3-carbethoxy pyrazolone-5, dms. 200-b. lots, civd. E fb. 3.45 – m-Phenylenediamine. cast, dms., c.l.,	g.p., hopper care, same basis . fb. Polyethylene finear low-density g.p.	.38 .42	Potassium muriste, 60-62.4% min. K ₂ O, std., bulk, c.l.,	Pyridoxine hydrochloride, USP, 100 kilns or more divid. kilo, 29.00 33.00
t.l., f o.b.works b. 2.07 - o-Phenylenediamine, flaked, dms., t.l.,	resinblown film resin	.36 .40 .40 .43 <i>V</i> 2 .40 .45	frt. equald., f.o.b. Sask., Canada ton 44.00 45.00	kilos or more, divd kilo. 29.00 33.0 Pyrites, Canadian 48-50% S. mines long ton 4.50 500
f.o.b. works	tion moiding, g.p., hopper	.40	soluble, fine std., f.o.b	Pyrogalic acid (see Pyrogaliol)
f.o.b. works b. 4.00 Phenylephrine hydrochloride, USP 100-kliolois or more klio 175,00 185,00	Ins wire, CATV, power cable ib.	.45 .48 .647 -	coarse, f.o.b. Sask ton 49.00 50,00 gran., f.o.b. Sask ton 50.50 51.50 Potassium nitrate. fert. grade, std., 50-	lots, divd
100-kBolots or more kld. 175.00 185.00 Phenyiathyl scatate, dms	wire and cable thermoplastic high- voltage, natural color, same basis	.70 .741/2	ton c.l., divd. SE ton 267.00 274.00 prilled ton 277.00 284.00	
b-Phenylathylamine, dms., 30,000 bs. or more, frt. alid	wire and cable, XLPE low voltage, 14% carbon black, same	.70 .7472	tech., gran., bgs., c.l., min. 50 tons, divd	
Phenylethylphenyl acetate, 25-lb. cns	basis	.67½ .72½ .667 .667	Potassium oxalate, neutral, tech., fine gran., powd., 300-lb, drn., frt.	W .
Phenyllydrazine, 99% min., dms ib. 3.50 - 1-Phenyl-3-methyl-5-pyrazolone,	Polymyxin sulfate, USP, bulk, 50-billion units minmillion units Polyoxyethylene sorbitan monos-	.52 –	equald	Quassia chips
dms., 260-b. lots divd. E b. 1.80 - o-Phenylphenol, dms., I.L., works . lb. 1.35 2.00	tearate, dms., 20,000-lb. lots, works	.73	dms., same basis ib. 1.06 - Potassium pentaborate powder 15c. per ib. higher.	Quinacridono marcon, dms., irt. ald
p-Phenylphanol. bgs., i.i., 40,000 lbs. or more, worksb. 1.86 – Phenylpropanolamine hydrochloride,	dms., 20,000-1b. lots.		Potassium perchlorate, dms. c.l., works	scarlot, dnns., fri. alid
100-kilo dm kilo 24.00 28.00 Phenylealicylate, puril. cryst., dms.,	works	.73 –	Poteselum permanganate, free flow- ing, bulk, hopper trucks.	Quince seed, bgs
techcryat.£b. 2.76 -	copolymer, med. impact, nat.,	.46 .48 .50 .56	works	Quintne hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more oz. 2.45
Fisher, E	high impact, same basislb. Colored material 8c. per lb. higher for	.63 .60	Potassium permanganata, USP, 50-1b, kgs., works, c.l., t.l jb. 1.38 —	Quinino sulfate, USP XVIII, 1,000-oz.
Phosgene, 1-ton ret. cyts., 5 to 8-cyt. quantities, worksb. 55 67	Polyetyrene resin, cryst., nat., hopper cars, frt. alid	A R	Polessium persuitate, 225-lb. dms., 24,000 lbs. or more, f.o.b.	Quinoline, dms., t.l., fri. oqualdlb. 1.49 tanks, same basislb. 1.43
Phosphate rock, Fiz., land pebble, run. of mine washed, 66-68% b.p.l.	vinpact, nat., nopper care, same ba-	.48 - .51 -	plant	
bulk c.i. mines fon 23.15 — vessel, Tempa, same basis ton 28.00 — Phosphoric acid, com'l. and tech,	high heat, high impent, net., hop-per care, same basisib. expandable beads (EPS), pkging	49	bgs., c.l., t.l., works, E., frt.	
grades, 75% tanks. works	modified, same basis	.69 -	Potassium selicyjste, USP, gran., 200-	
80%tanks,works 100 bs 31.00 — 85%. N.F. tanks, f.o.b. freight	medium viscosity, how., t.l.	1	b. dms., 2,000 lbs. or more, works. frt. alid	Dock tech 204 malegraphy B. 2.12
equald	Datilaty hydrohyad madium viscos	1.00 1.05	OSP, powo., 300-lb. dma., 2,000 lbs. Ormore, same basis lb. 1,42 — Potestium silicate ecia 30 a 90 o	Recemethionine, USP, 60-250 kilo 8.80
52-54% a.p.a., tanks, worksunh-ton 3,10 –	ity, bgs., i.i., dvdib. Polyvinyl chloride resin, g.p., homo- polymer dispersion, bgs., t.i.;		Works 100 lbs. 18.90	250-500 kilos 6.60
super, min. 70% s.p.s., same basisunit-ton. 3.45 — Bhosphorus, white treatent solid days	g.p. suspension, bulk, same ha-	50 -	Oms., c.l., t.l., works, 100 bs. 25.90 — Polassium siicate, 40-40 5 Re. 2 1 rs.	Renegoed of I done
Phosphorus, white (yellow) solid dims., c.l., works, frit. equaldkb. 1.00 – tanks, works, l.o.b. works, . b,91 –	sts	38 ~	10, t.c., t.t., works 100 lbs. 25.05 -	Rauwollia serpentina ropt, powo. bis. 22,00
Phosphorus oxychloride, tanks, frt. equaldb, .40 -	persion, same basis in	- 58 A1	c.l., t.l., works 100 bs. 32.05 Potassium silicate, electronice grade, 30-30.4 bs., 2.1-2.2 ratio, t.c.,	Red camine. No. 40 (see Carmine No. 40) Red precipitate. (see Mercurio oxide, red). Reserpine, USP, cryst., bots gram. 40
Phosphorus pentasuliide, powd., dms.,c.l., works 100 bs. 50.00 - tote bins, sellers 100 ks. 45.00 -	g.p. copolymer suspension, same	B 45 40	dms., c.k. t.l., works 100 lbs. 28.10 -	Resording tech., bgs., t.L., works. 3.96
Phosphorus pentoxide, dms., t.l., works	Turkey, bgs)40)85	tl. works 100 bp. 50 co	or more, works
Phosphorus sesquisuffide, dms., cvs., c.l., worksb38 -	Works	5, 19 <i>0</i> 0	soud or grass, 2.5 ratio, dms, c.l., t.l., works 45.65	Hesololuoi Luouosostate, cana-t-1-10
Phosphorus trichloride, cims., c.l., works	ex terminal 100 like	5,	percentage by weight of SiO ₂ divided percentage by weight of K ₂ O. Potassium slicoliuoride, box of the	PMA dms. works.
Phihalic anhydride, flake, c.l., t.l., dms., (rt. equald	Works 100 lbs	L, 5. 42.35 _	Potessium-sodium tertrate, NF ocen	tungstated, PTMA, Offis, 105, 105, 105, 105, 105, 105, 105, 105
molton, tanks, same basis ib	Potassium bicarbonate, tach, prer	b 90 1.31	Potenskum enchale a Leman stud. 1.20	
Phihelimide, fiske, works lb	Polassium bicarbonata USP gran	b 3192 -	Potestium suffate, soricultural grade,	powd, bgs.
green shade, same basis b. 6.40 8.50 reginated, bols, same basis b. 6.20 8.75	dms.,t.l. Potassium bichromate, gran., 400- dms.,¢.l.,t.l.,works.	D. 72	Potesticin suitate over part 400 150,00 150,00	Ribollavin, USP, 25 kilos, divd 1 kilo
38 CHEMICAL MARKETING R		t 18, 1986	b, 88	kilo tots.
A CONTRACTOR OF THE CONTRACTOR		al Sign	4000年1月1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1	
			A STATE OF THE STA	1.49 Mar. Chapter, 77 H. 787 S. 19 11 Kanada

	1.10 1.16		F
otassium tetraporate powder 15c, perton i otassium thiocyanate, USP, cryst., 225-ib dms , 5-dm, lota, b	Ngher 4.01		
tech cryst dms. ti	.62 .71%	-	
otassium-titamum iluoride, tech., dms., t l., works. ht. equaldib. Potassium-zirconium fluoride, tech	4.84	1.59	
oquald	.78		
rortrisolono acetate, USP, dms. 5	1.03 1.12	•	
kilos or more	1.12		•
olic grade, dms., 2,000-lb, lots, frt. alidb. Procaine hydrochloride,	4.95	5.75	
USP, ampule grade, dms., 1,000- lb. lots, frt. alldlb Proplonaldehydo, tanks, f.o.blb.	4.95 .36%	6.60	
Propionic acid, syn., pure, tanks, divd. Eb. n-Propyl acetate, tanks, divdb.	.33	344	
n-Propyl alcohol, tanks, dwd lb. n-Propyl gallato dms . 100 to 2,000-lb. lots, divd lb.	.42 11.50	.44 -	
n-Propyl-p-hydroxybenzoate, USP, 500 kilos kilo tech., 500 kdos, f.o.b kilo	10.80 10.36	:	į
Propyl paraben (see n-Propyl-p-hydroxybe Propyl thiouracti, dms., 50-kilo tots or morekilo.	65.00		
n-Propylamine, dms., c l., divd b. Propylene, polymer grade, l.o.b. Tex. and La. Gulf Coast points . lb.	.76 .174	80	;
chemical grade same basis to. Propylene glycol, indust, tanks, f o.b. lb. USP, tanks, f.o.b. E lb.	.15% .40 .43	.18 .41 .44	•
Propylene glycol monomethyl ether, tanks, divd. E	.49		
Payllium seed, USP powd bgs lb.	.47% 1.50	1.75	¥
medium, 01/2-11/2, bgs., ton lots ton	270.00 300.00	:	
Pumice, Imp., Italian, fines, bgs., ton	300.00	•	•
medium, bgs., ton lots. f.o.b. East Coast	280.00 350.00	:	
Coast	300.00		
works	5 25 1.91	6.35 -	
Pyrethrum, purit., 20% pyrethrins, dms., works	37.50	37.76	
tanks	5.90 5.70	:	
Pyridoxino hydrochlorido, USP, 100 kilos or more, divd kilo. Pyrites, Canadian 48-50% S.	29.00 4.50	33.00 5.00	
Pyrogalici, 100-lb. dms., 1.000-lb.	13.70	15.25	
lota, divd b.			1
Ω			
4			
Quassia chips	.67	- 24.25	:
and	20.75 17.76 21.75 17.75	19.00 24.25 19.00	٠
scarlot, dms., irt. alid	2.00	2.76 4.25	:
Quinine hwdrochloride, NF, 1,000-oz.	4.20 2.45	250	
dms., 2,000 oz. or more oz. Quinino sulfato, USP XVIII, 1,000-oz. dms., 2,000 oz. or more oz. Quinoline, dms., t.l., frt. oqualdlb.	2,30 1,49	250	7
tanks, same basisib.	1,43		
B			ļ
R salt tech., 304 molecular wt.	2.12		
Recemethionine, USP, 60-250 kilos kilos kilos	6,80 6,60 6,60		
250-500 kilos kilo 500 or more kilos kilo feed grade, 99% min., o.l., t.l. lb. Rapeseed oil, dme.	1,07	h 621	۱ ا
Rauwoitia serpentina ropt, powo. bis. dins	22.00 (0) (1)		
Reserviced tech hos. t. works.	.40 9.96	, , , , , , , , , , , , , , , , , , ,	ŀ
Resoroinol, USP, cryst., dms. 50 kilos	9.35 9.90		ŀ
Resordinol monoacetate, dms., 1,000	1,98		
PMA, dms., works,	9.25 11.50	140	
Finotinol, 25-lti, ons.	105.00 16.25 45	, T	
Phuberb root, India, whole, bgs		14	
Ribotjavin, feed grade, 20 saldio Globotavin, USP, 25 kides, diversida Ribotavin, 8-phosphata-addium, 25 kilo lota, kilo	43.00		
kito tota,	130.0	, ()	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

	The second second second second	Softum cethoculates task and a	· ·
Bloe bran off, refined dms. t.l lb. 1.25 -	Sodium bicultorato, USP, panel 493 grado, bgs., CT, LT, works, fit 1004 (1974)	Sodum cethoralcato, tech., anhyd., byga.c.t., works 160hs. 34.50 - Sodum cethoralcate, tech., hydrated,	ALIMANA
Richoleic acid (see Potassium-sodium tartrate). Rochele selt (see Potassium-sodium tartrate).	coarso, same basis total to the same basis	P.35 dm3 cl. works 100 bs. 27.45	CHEMICAL
Roofing prontes NF, Bulgarian, otto. Rose of, net., NF, Bulgarian, otto.	gran, same basis 1008: 17 ds gran, same basis 1008: 17 ds	Symmonatale, 99%, bgs., 11, works b	VIILIIIIVAL
Turkish, ofto, core	Sodium bichromate, gran 1941	c1 30,000-lbmn lb67	BRIAFA
Turisian, cons.	Sodium billiocido, 400 to 400 t	Sulum peritobarbital (see Peritobarbital sodium). Sofirm perborate, tetrahydrale, tech.	PRICES .
Rotenoria result, 30-0-0 unit-lb21 .23	Sodum bisullate, buth, c.1, works then 175 m.	1999 . C 1 . 11 . works	IIIIAFA
	dois . c l.,	hn or mure, fob plant b 63% 55 to bigh somobasis bb 62 Safem phonobashtal (see Phonobashtal-Sodium).	WEEK ENDING AUGUST 15, 1986
6	Works, Error 100 Re; (*)(a)	Sahim phonosal ratio pend, and, b78 –	Sorbitan monostearate, dms., c.l., t.l.,
	Sodium bisulitio, solin , 36° , sept. 100° ; Dasis, works, East. 100° ; Solin , 100° ; bulk, works, Vical 100° ;	tech . hgs . e l . t l , works . (r) 100 fbs 54.50 -	30,000 lb. min., f.c.b. workslb76 -
Saccharin NF, gran., soluble, dms.	photographic grade, 43" sale works 100lbs 3150	tood grade, same basis 100 lbs. 57.50 — Solum phosphate, monobasic, tech.,	Sorbiten tristearate, et., t.L., 30,000 lb. min., l.o.b. worksb80 —
1,000-ib, lots, in. and ib. 2.00	Sodium borato NF, gran , tiga , c l	namo basis 100 lbs. 55.75 — fixel tyrade, same basis. 100 lbs. 59.75 —	Sarbitol, USP, reg. 70% aqueous, dms., c.l., f.o.b. shipping point,b35
than 20,000-to. tols, irr. and . id. 3.7	powd., senio basis Ib Sodium barahydada, powd . ilms	MAX	pointb35
egible dma., N.Y., divd	Sodium borohydrido, stabilized water	civionizated, name basis 100 lbs. 31.50 — cryst. Fech , some basis 100 lbs. 30.50 —	powd., dms., c.l., t.l., works
Abenian, bgs	son, 12% Nathit, 100% tetra: 3000 gal tankwayon, water for 17.4%	Cryst . food grade, same ba- 	Scybean oil (See Oils, Fats & Waxes market report.) Soybean oil sckulated, scapatock,
Sage of, Clay, Prentil, Otta. Ib. 9.50 10.00 Palmatian, cris. Ib. 9.50 10.00 Spanish, cris. kilo 12.50	Sodium tromido, 99°, gran 400 th dine, f o to works to 1 of	restrict power agriculture	95% acid, tenks, New York Ib. 14 15 Soybean oil, acid, dbl., dist., dns Ib
Salicyladehyde, lanks, 1.0.0	Sodium carbonato, decally draftic lays c.t., 11, works by 774.00 Sodium carbonate, cryst monotivitate (1991-01) in the	its data, dry basis, divd Rt. 5 50 —	s.d., dms
2,000-ib. lots, one snip ib.	Sodium carbonate, monohydrafied bgs., cl. tl. works ten 10.190	nucre, floib fit alld ib 54 — Custom pyrophosprate, and, tech , bgs ,	tanks
USP cryst., dms., 1,000 lbs. or	Sodium carboxymothyl cellulote (9661 1/4) Sodium chiorate, bulk (1 , 1.1	for the works, fri equald 100 first 58.25 — for the works fri equald 100 first 58.25 —	Spearmint OL Far West, native b. 14.00 15.00 Midwest, native 10.00 12.00 12.00 Far West, Scotch 15.00 15.60
more	tig b works ton 4,040 440.00 Sodium chlorate, cryst , 450 lb stars	Acces for equals 100 lbs. 61.25 -	Midwest, Scotch
Sald (see Phenylsalicylate). Salt, evaporated, common, 80-lb, bgs.,	C I , works E (b) 77 Sprium chlorido, tech (sen Salt)	ci.il.works	St. John's bread, adible, bls
c.l., t.l., North, works 30 los. 4.02 bulk same basis	Sodium chloride, USP, gran, 1-1: 35 Sodium chloride, Tech , days , c 1	arhyd. tech, bgs. c1, t1, werks fir equid . 100 bs. 44.75 – bulk hopper cars, same ba-	Stennic oxide, dms., works lb. N.A
chemical grade, same basis 80 lbs. 4.30 — Sen rock, madium, coarse, same ba-	Sodium chromato, autivid , din . , e l	100 lbs 42.50 - 100 lbs 42.50	Stannous chorde, annyd., dms. wks. lb. N.A. – Stannous Rudborste, lig., conc., dms. 11. works, frt. scueld lb. 2.50 –
bus, same basis	Sodium chromatic, totrahydrate, top (c) (c) (c) (c) (d) (d)	100 Bbs. 53 00 —	t.l., works, irt. equald Ib. 2.50 - Stannous oxide, dms., works Ib. N.A - Stannous suitate, dms., works Ib. N.A
Saltcake, dom., bulk, works, 100% N,SO,, basis, r.o.b. works E. ton 65.00 98.00 same basis W	Sodium cutato, quan, amb ₁ d. 20045 dure, cl. (1, 11) to to the	dos., 1,000 ftr lots or more, wasts, in equald ib 3.00 —	Stearic acid, double pressed, bulk. ib. 26 39 single-pressed, bulk
Sante basis W. 10h 95.00 Bandatwood of, E. Indian kilo 145.00 Indonesta kilo 102.00 –	Sodium cutato, USP, quan angstrate 100 lb tops, 11 To be stop	Figs or discrete status basis 1,000 tb sigs or discrete status basis 1,000 tb 3,05 —	triple-pressed, bulk
Sarcosine, tech., tanks, works, frt.	ping point to (A.). Sodium cyanate, don: 1,000 to 535	works to approximate bulk c1.t1.	Streptomycin suitate, USP, bulk. KIID. 47.00 - Streptomycin suitate, USP, bulk. KIID. 47.00 -
Scheefter's salt, paste, dms., 100% basis, works	works to 85 Sodium cyando, Unquettes or gon	(4) of 11 works 100fbs 198.00 —	Strontium ritrate, 50-15 bgs., c.l.,
Scopolamine hydrobromide, USP, 100-oz. lots bots oz. 36.00 46.50	90% min 200 ft das ma forb works to 13	3 (% ratio high in 1 1 1 1) wide: 1000 = 1570 = 1575 = 1575 = 1000 = 2775 = 1	Works. 100 lbs. 51.50 - Styrens monomer, 99.6% mln. t.c.
Sebecic acid, CP, bgs., c.l., works lb. 2.14 - putl., bgs., c.l., works lb. 2.13 - Seldtz mixture, dms., 5,000-lb, lots. lb	Sodium diacolate, unityd , dars , i 1 works. It to	1 95 2 00 ratio bath c1 , 11 , 6 ab . 100 nc. 20 30 -	Styreno-acylominie resin, nat., bulk.
Selentum, powd., 98,99% Se, dris., divd	Sodium discolate, FCC, 50 th big . 11, divid f. of Bocker, 16 61 67 Sodium discolate, toch , 50 th day.	top. (1.1) works 100 fts 22 15 -	cryst. bulk. same basis lb
com!.99.5% Se. same basislb. 10.00 15.00 Senna leaves, Alexandria, whole and	C. I. works 10 57 Sodum orghodishs, uswal, gran, 1)	rutin, bulk, c.l., 11, lrt.	Styrol acetate, drns
hall, bis	or mixed 11. Lots shipping point. 16 200 285	Italia, in kratos percentago by weight of SiO, divided too contage by weight of Na ₂ O.	Succinic anhydride, clms., c.f., t.f., f.o.b.
powd., bbis., bxs	Prices W. of Ourver 2., per point hapter Sodium for rocy anido, bijs. 13.	Section Steenfooding of the Section Section 17.95 19.75	work
Sienna ploment, burnt, paper hose	works	Soften slavesto, das was to add. E.B. M.A. Soften suffered to, das works	Sucrose ecetate, technityrate, 90% dms.,Ll, dlvdb. 1.18
raw paper hope Led works	South Adorde, white, 37%, 400 in	2,000 II kila ID	terks, dvd
Works 93% 200 meeh 100 24 00 24 00	dms,c1,works,frtequal) it; 6,145 100 bgs,c1,samo basis, it; 60 USP powd., 200 lb dms, 11,	Winks Chiff ION 90.00 B0.00	Sucrose octa-acetate, defiationly grade, 100-lb, dms., (.o.b.
98%, 200 mesh	f a b shipping point 81 4 69 Sodium formato, bgs., c.f., works 15 70	fet oquald	works
86ca, dry-ord, bns. c./ wryte pp pa/	Socium giaconato, toch., 50 tb bgs . 2,500 lbs. or more intenti in	Scalar rullate, photo priore, 100-62.	Sulfabenzamido-socium, dms., 500 kitos
99% under 15 microns mi	Sodium hydride, oil dispersion, 60%, Nati, 167 Ib. dins., 10 dins.	Sodium sufflydraio. Hake, 70-7276.	Cutertoring HISP power, dries, 500
99% under 10 migrans mi	Socium hydrosutikio, (san Socium hydrosutikio, (san Socium hydrosutikio, (san Socium hydrosutikio)	uca 44.46% tanks, works, frt.	kilos
. Saca, hard-quartz 99 5% SIO 305	Sodium hydrosuilite, dms., c.l., t.l., t.o.b. shipping point (f R) 64	equald ton 500.00 = 500.00 = 500.00 5	kilos
mesh, bgs., c.l., works ton 37.00 – 140 mesh, bgs., c.l., works ton 34.75 – Secon tetrachoride, tech., dms., c.l., works	Socium Indiaxido, USP, peliots, 100 III. dins., ct., tt., works, fit.	tigs same basis	
tanks works	oquald	Works, E. Nt. equat.	Sulfamethazine-socium, USP, Julio, 13.00
Silver buillon, ingote, cs., Troy. oz. 6.35 - Silver cyanide, 80% Aq. 500 - oz. lote oz. 4.215 - Silver hitzete, ACS, 58.2 Troy oz. AG/	110 lb. done	Book on a focusation CP (see Socilum thiocysnate).	Sulfamethiszine, powder, dms., 500 kitos
Souplark, ACS, 58.2 Troy oz. AG/ 100 svok. oz. AgNO ₃ oz. 3.161	Socium ryposulitio (see Socium thiosulfete)	Social legaporate (see 1974), dens.	WONG
Scapbark, crushed, bis	B. lots. dms. int. equald lb. 14.72 Sodium fauryi sulfate, 30%, tanks.	CI. WORKS, IT COURSE. 250	works.
bgs.cl., works, 1.0.b lon 120.00 -	Sodium lignin sulfonnie, bas o 1	1.0h.works	mi equal took has the Lo.b.
Barrie basin Daper, Ogs., O.I.,	Sodium metableutilita (san Portium Mariana)	tech, arthyd. dms. 2,000 lbs. or more works	WORKS
Soda, caustic, liq., 50%, sollers (anks)	Sodium mataborate, octohydrate, gran, bgs., c.l., worksb38 - totrahydrate, gran, bgs, ct.	100 mg. 45.50	Bulfur, crude, bright, molten, dom., f.o.b.
equal., 76% Na ₂ Oton. 175.00 195.00	Socium, metallic, 12-lb bicks rine	cryst pongrycus 100 lbs. 28 50	f.a.b. Le refy long-ton 125.50
fake, 76%-400-b dms, c.1, works ton. 205.00 225.00 80lid, 76%-700-b dms c.1 ton. 500.00 670.00	fused, dms. 24,000 th total cormose	Social of tignate, dire., cl., works. b. Social of tights of tight	f.o.b. La. refy recovered, dyd., Houston, long-ton 25.50 ex terminel, flotterdam leng ton 35.00 ex terminel, flotterdam leng ton US (.g.b. tanks, Alberta, Canada; for US (.g.b. tanks, Alberta, Canada; for US
gran. 75%,450-lb dime of	tanks works	Socium imporprised tests, inch., inch., 59.75	convery can long-ton 167.60
beads, 76%, 400-in dms on 520.00	c.i., f.o.b. shipping pt. Irt.	built, hopper care, seed basis, 100 lbd. 37.50	Sulfur, crude, and over the property of the sulfaces
Prices for lig. revon-tyres \$15 ton blakes 27.50 28.50	food grade, bgs. c.l. f.o.b. lit. squald.	figor grade, bgs. ct. 100 lbs. 48.50	four, 60-to, 1981 100 tob. 13.60 bests 100 tob. 100 tob.
Soda, sal., conc. box of	works	Fopo grade, bgs., et., Lt., sand., 100 liss., 48.50 ; Socilum tungstate, tick-high moby, critical circ., 10,800 bs. or more, 51 8.00 8.50	50-b, bags; c.L. mines be
Sodium acetate appure 100 lbs. 3.35 3.8	5 pentahydrate hos of 100 lbs. 25,00	Martin grade 000. TUIOVO NO. Z. 1 A 00	flour, light, 50-in; 100e, same ba- 100 lbs 20,00
Sodium aceleta, USP, 60%, gran, 100-	built of transfer 100 by 18.95	Socilure enterorium prosphate, purille stypic drie sty	flour, light, 50-in: 909- suite 20,00 mg 100 lbs 20,00 mg 100 lbs 20,00 mg 100 lbs 20,00 mg 100 lbs 26-lb lbs 20,00 mg 100 lbs 26,00 l
sodium alginate, NF, white powd.	works, 100 lbs and over b. 4.87	Social formation of a surface of the state o	mines beels Suffur, rubbameters, 96.5% min; pu-
P-aminospirodeto des 100	4 1 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Special discount surface, works. Do lots or more, works. 16	nly considered 100 be. 14.60
Works Sodium satisfactors in the satisfactors	Sodium Nitrate, USP, bgs. cl. (ob	Sociaum annocum prospinato, puril	tine, 98% into pessing necessity. 100 lbs. 16.10
8odium ascorbale, USP, dms., 100	Socium nitrate, dom., industrial, hoe	SOF PLAN MARK	Sulfur dischorder, dank. oil, worke, fr., 24 squist dischorder, dank. oil, worke, fr., 24 squist, earne basis b., 1794 tanks, earne basis b., 1794 Sulfur dischorder, etc., comit. truutismil.
ort. alid	imp. com: 100.5	。在10 图像12 图像12 19 19 19 19 19 19 19 19 19 19 19 19 19	es. Suffire Goods, 4d. comit multi-unit con 278.00 con con con 210.00 220.00
100-lois perce heart 10. 831/2 -	bulk, c.f. same base. ten 2000 to 1800	Control national and analysis of the second	safer monochoride, drise, e.l., works.
100-b. dms., cl., t.l., same basis. ib	into agricultural bulk c.i. same basis Sodkum nitrite Usis		paris, dris. 10.0. words. on 210.00 220.00 taris, works. sale words. Shir monochords, dris. et., words. ht. 1894 tights, sale bisis. 4. parasonal reliable.
, j2 -	Sottum nitrite, USP dris., c.I. works in 140.00 in 140.0	CHA	MICH MARKET THE
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	-						
	1 Phthalocyanina blue toner, water dis-			Poteseium bifluoride, tech., dms., t I.,			Polassi
CHEMICAL	persable, bbis., same ba-	7.05	7.76	works., frt. equald	.45	49	dms
E :	Phthalocyanine green toner, ali grades, bbis., irt. alid. E. of Rock-			bgs	.90	1.20	Polassi Potassi
	leslb. Phthalocyanine green toner, resinated,	8.10	10.10	100-1,000 lbs., works lb. Potassium bromate, gran., powd.,	18.00	20 00	lech
nniace	bbls., same basis lb. Phthalylaulfacetamide, dms., 500- klio	7.45	9.20	200-lb. dms., c.l., f.q.b. workslb.	1.06	-	Potes
PRICES	lotaklio. Picolines, reld, mixed, bulkklio	6.61 2.81	- 1	Potassium bromide, NF., gran., dms., c.i. f.o.b. works ib.	1,12	-	Potass
	Picric acki, pure paste, 25-lb. cins., c.l., dry basis, f.o.b. Charlotte,			Potessium carbonate, liq., 47% K ₂ CO ₃ . tanks, l.w., works 100 lbs.	15.40	-	1.01922
WEEK ENDING AUGUST 15, 1986	N.C	6.00	-	dms., c.l., t.l., works 100 lbs. celcined, 99-100% K ₂ CO ₂ , hopper	20 65	-	Prodnis
Perchloroethylene, dry cleaning grade,	s/s, I.o.b. Charlotte, N.C lb. Pigment green B, kgs lb.	5.00 2.20	-	cars or trucks, works 100 lbs.	32.50	_	Prednis
distr., tanks, divd b	Pilocarpine hydrochloride, USP, dmskilo.	1,500.00	2,000.00	bgs., c.l., t.l., works 100 lbs. Potassium carbonate, hydrated, 83-	36 40	-	Prednis
cityol	Pimento see Alispice Pimento leaf ali, dms	14.50	-	88% K ₂ CO ₂ , dms., c.l., l.l., works 100 bs.	34.90	_	Procau
Permanent red 2B., (red 48), calcium saks, drns., frt. alid b. 5.25 -	Pine oil, 80% min. alcohol content. bulk, f.o.b. works 100 lbs	47.00	63.00	bgs., c.l., t.l., works 100 lbs. Potassium carbonale, gran., purif.,	33.70	-	Proces
bartum salts, same basis b. 5.26 Peru balsam, f.o.b b. 3.25	dms., c.i., t.i., same basis 100 fbs	51.00 1.62	54.00	400-lb. dms., 5-dm. lots lb. Potassium chlorate, cryst., dms., c.l.,	.40	.46	U
Petitorain oil, Paraguay 5. 5.75 6.25 Petrolatum. USP, anow white, dms.,	a-Pinena, periuma gradekilo tech. grade	.18	.23	works	.1472 .30	_	Propio
c.l., refy	b-Pinene, perfumery grade, tanks, klo tech, grade, tanks	.35	.40	purif., gran., 325-lb. dms., f.o.b. shipping pointlb.	.40	-	n-Prop
tanks, rely	E	1.80	-	Potasalum chloride, chemical grade, 99.95% KCI, bulk, c.i., f.o.b			n-Prop
Petrolatum, USP, Lilly white, tanks, rely	ib. lots, frt. slidib. Piperazine dihydrochloride, 53%,	2.25	2.35	workston USP cryst. dmslb.	1.12	-	n-Prop
USP, cream, dms., c.l., refyb385 — tanks, refyb30 —	dms., LL, frt. aldlb. Piperazine hexahydrate, 44%, dms.,	2.00	-	USP gran., dms	.87 .67	-	tech Propyl
USP, soft yellow, drns., c.l., rely lb. 350 tenks, rely	1,100-lb. lots, frt. alid lb. Piperazine phosphate, 42%, dms., t.l.,	1.60	-	Potassium chloride, agricultural (see Po Potassium chromate, purif., cryst.,		nate).	Propyl
USP, amber, dms., c.l., refy lb	frt. afd lb. Piperidine dist. 98% min., dms., c.l., t.l.,	1.80	-	drns., works lb. Potassium citrate, NF, gran., 200-lb.	.57	-	n-Prop
Petroleum pitch (see Asphalt, patroleum). Petroleum autonale, 60-62%, suifonic	Workskilo. Piperonyi butoxide dms., divd. €ib.	6.92 5.00	-	dms., frt. alldlb. Potassium cyanide, dms., 20,000-lb.	.931/2	-	Cł
conf., HMW, bulk, works lb48449 MMW, same basis lb49 -	Platinum, melal, works Troy oz. Polycarbonale resin, pellets, nat., t.l.,	545.00	-	lots or more, f.o.b. works fb. Potessium dichromate (see Potessium	1.32	-	Propyk USP
LMW, same basis /b4949% Prices for 51% sulfortic content 2c per lb. fower on corre-	frt. alid	1.84	1.86	bichromate). Potassium fluoborate, tech., dms., c.i.,	0	4.40	Propyl
sponding molecular wis. Phenacetin USP, powd., 200-ib. dms., 1,000-ib. iots, divd , ib. 2,20 —	thophthalic, bulk, tenkcars, frt. alid	.61	.53 .62	t.l., works, frt. equald lb. Potassium fluoride, anhyd., dms.,	1.40	1.42	Propyl
100-lb. dms., 1,000-lb. lots, dlvd. lb. 2,22 2.45	isophihalic, same basis ib. Polyethylene resin, high-density, blow	.56	.62	t.l.,	1.88	-	Psylhu Pumic
p-Phaneldina, dris., c.i., f.o.b	moking, g.p., hopper cars, frt alid	.43	.46	worksb. Price W. of Denver 4c. per lb. higher. Potassium gualacolsulfonate, 300-lb	1.45	-	med
Phenobarbital-sodium, NF, 500-kilo lots, f.o.b. works kilo 27.00 -	care, irt. alid	.43	.46	dms., 600 lbs. or more frt.	210		Purnic
Phenol, syn. tanks, frt. equeldib25 .29 p-Phenofsulfonic acid, 65% sol'n.,	basis ib. wire and cable, nat., hopper cars.	.47	.48	equaldb. Potassium hydroxide, tech. (see Potast Potassium hydroxide, USP, pellets,	2.10 1, caustic).	-	med
dms., c.l., fob works 1b	same basisib. wire and cable, black, same ba-	.45	.49	100-lb. dms., c.i., t.i., works, frt. equaldb.	1.29	1.31	coa
Phenothiazine, indust. grade, 80-lb. bags.c.l., f.o.b. worksb. 2.33 —	ele	.5514	5 .57	Potassium iodide, USP, gran., cryst., dms., 1,000-lb. lots divd ib.	10.72	12.39	Pyraz
purif. grade, same basis b. 2.69 – Phenyl acetate. dms., 100-b. lote,	clarity film, hopper cars, irt and fb.	.36	-	ACS grade truckload lb. Potassium-magnesium sulfate, std.	11.32	13.55	Pyreti
works	patiet shrink film, hopper cars,	.37	-	l basis 40% K-SO, and 55%		-	Pyreti
di-Phenylalanine, dms., 25-kilo	same basis	.35	-	MgSO ₄ bulk, works ton Potassium metabisultate, gran., dms.	67.00	-	Pyridir
1-Phenyl-3-carbethoxy pyrazolone-5, dms. 200-lb. intendivd F lib. 3.45	same basis	.38 .38	.42 .42	Potassium muriate, 60-62.4% min.	.44	-	
m-Phenylenediamine. cast, dms., c.i., t.i., f.o.b.works	resinblown (im resin	.36 .40	.40 .43%	K ₂ O, std., bulk, c.i., frt. equald., f.o.b. Sask.,			Pyrido
o-Phenylenediamine, flaked, dms., t.l., f.o.b. works	Cast film regin	.40	.45	Canada ton soluble, fine std., f.o.b	44.00	45.00	Pyrit
p-Phenylenediamine, flaked, dms., f.o.b. works	tion moiding, g.p., hopper cars, same basis ib.	.45	.48	Saskton	49.00	47.00 50.00	Pyrog
Phenylephrine hydrochloride, USP 100-kilolots or more kilo. 175.00 185.00 Phenylethylacetate, dms	line wire, CATV, power cable ib. wire and cable thermoplastic high-	.647		gran., f.o.b. Sask	50.60	51.50	
Prienysethyl elochol, NF, dms	voltage, natural color, same basis	.70	.741/2	prifiedton	267.00 277.00	274.00 284.00	
ormore, irt. aitd ib. 1.50 - Phenylethylphenyl acetate, 25-lb.	wire and cable, XLPE low voltage, 14% carbon black, same	071		tech., gran., bgs., c.l., min. 50 tons, divd	470.00	-	
Cns	basis	.677 .587		Potassium oxalate, neutral, tech., fine gran., powd., 300-lb. dm., fri.			
Phenythydrazine, 99% min., dms ib. 3.60 – 1-Phenyt-3-methyt-6-pyrazolone.	unitsminmillion units Polyoxyethylene sorbitan monos-	.52	-	equaldb. Potassium pentaborate, gran., bgs.,		-	Quasi
o-Phenylphenol, drns., t.l., works ib. 1.80 1.35 2.00	learate, drns., 20,000-lb, fots,	.73	_	c.i., works	104	_	Quint
p-Phenylphenol, bgs., t.l., 40,000 tos., or more, works	Polyoxyethylana sorbitan triategrate, dms., 20,000-lb. lots.	.,-	_	Potassium perchiorate, dms. c.l., works		•	100 800
Phenylpropanolamine hydrochloride, 100-kilo dmkilo 24.00 28.00 Phenylsalicylais, punt. cryst., dms.,	Worksib. Polypropylene resin, homopolymer.	.73	-	Polassium permanganate, free flow- ing, bulk, hopper trucks,		-	Quinc
E	g.p., net., t.l., (rt. ald b. copolymer, med. impact. net	.45	.48	works	1.09 1.20	-	Quink
liake, E	same basis	.50 .53	.56 .60	150-kg. dms., same basis lb. Potassium permanganate, USP, 50-lb.	1.17	Ξ	Quinir
Phospene, 1-ton ret, cyle, 6 to 9-cyl	Colored material 5c. per lb. higher for each grade. Polyatyrane reah, cryst., nat., hopper		1	Kgs., works, c.l., t.l ib. Potassium persuifate, 226-lb. doe	1.38	-	Quino
quantities, works	Cars, frt. akd	.48	-	24,000 lbs. or more, f.o.b.	78.80	_	tani
of mine washed, 66-68% b.p.l. bufk c.l. mines	high heat, high impact, nat, hop-per	.61	~	ci/ti same basis	72 RA	Ξ	
vesset, Tamps, same basis ton 28.00 Phosphoric acid, com'l. and tech	expandable beads (EPS) photos	.52	~	Ogs., c.i., t.i., works, E., frt.	40.70	47.25	P
grades, 75% tanks, works100 lbs. 29.00 80% tanks, works100 lbs. 31.00	modified, same basis	.69 .73	:	Potessium saikviste USP oran 200	48.00	49.50	
85%. N.F. tanks, f.o.b. freicht	medium viscosity, bos. + I.			B. Oms., 2,000 fbs. or more, works, frt. slkt	1 50	_	
Food grade prices \$2.00 above tech, grade. Phosphoric ecid, agricultural grade.	partially hydrolyzed, medium viscos-		1.05	OF MORE, RAME hade	4.40	_	R salt Racer
52-54% ā.p.a., tānks, works	ify, bgs., t.l., divd	1.05 		Potasaium silicate, soin., 29.8-30.2 Be., 2.5 ratio, t.c., t.t.,			250
super, min. 70% a.p.a., same basisunit-ton. 3.45	g.p. suspension, bulk, same ba-		-	works 100 lbs. dms., c.l., t.L., works. 100 lbs.	OF OO	_	feed
Phosphorus, white (yellow) solid dms., o.l., works, fr. equaldb. 1.00 — tanks, works, f.o.b. worksb91 —	Pipe grade, bulk, same basis	-38		Potassium allicate, 40-40.5 Be., 2.1 re- tio, t.c., t.t., works, 100 be.	25.05	_	Raped
tanks, works, f.o.b. works lb	Polyvinyi chioride, a.o. conolumer dis-	-37		40-40.6 Be., 2.1 ratio, cims., c.l., t.l., works 100 lbs. Potassium silicate, electronics grade,		•	Red o
Phosphorus pentasuliide, powd., dms., c.l., works 100 lbs. 50.00 -	G.P. copolymer suspension, same	58		l.t., works 100 ave	28.10		Reser
tote bins, seilers 100 lbs. 45.00 Phosphorus pentoxide, dms., t.i.,	besis b Poppyseed, Dutch, bgs.b Turkey, bgs.b Polasti strips there fees between	40		solid or glass, 2.15 ratio does al	33.10	=	Resor
Works,	Potesh, causile lie 46% books to the	riato).	· -	60KOCOBSS. 2.5 ratio drag of 41		~	роч
o.l., worksb38 — Phosphorus trichloride, dms., o.l.,	works 100 bas 1 tanks West Coast, 50% basis, tanks to terminel 100 ba	13.00	-	"Ratio" Indicates percentage by well	45.65	diviriant h	Resor
worksb40 tanks, worksb35 Phibals substitute (lake of the dise				Potassium silicofluorida hos of the	•	,	Rhod
Phthalic anhydride, flake, c.l., t.l., dms., frt. equaldb30 .335 molten, lanks, same basisb27 .305	Polassium acetate, NF, cran dime	42.35	•	Potassium socium tartrate NE come	.11%	ž 15	Phod
Prices 1-1 Vic. per lb. higher on the West Coast Phithalimide, ticke, works	Potessium bicarbonate, tech., gran.	.90		Potassium sorbate, t.i. dma., divd b.	.80 2.20	1.20 3.10	Byn
Phthalocyanine blue toner, red shade, bble., int. alid. E. of Rockles ib. 6.10 9.60	Potassium bicarbonate, USP, gran	31		Potsasium stannate, dms. frt. elid. ib. Potsasium suifate, sgricultural grade, min. 50% K.O std., bulk, cl. f.c.b., works	N.A.	•	Pov
green shade, same basis	Potasskin bichromaje, gran., 400- dma., p.J., t.L., works.). 73). 41	8	Potasskim sulfate, gran, purif, 400-ib.	150.00	160.00	Riboti
.38 CHEMICAL MARKETING R	EPORTER August			GUITA A SA	.86 ~		Plibof

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					A
5	. 49	Polasskam tetreborate, gran., bgs., c.i., worksb.	1.10		
0	1.20	Polassium lateboosto pourier tea	1.10 1.15 Milioher	:	}
0	20 00	225-lb dms , 5-dm. lots lb.	4.01		}
6	_ }	Potessium (Hanate, Cins., C.I.,	62 .714	•	.!
2	-	Potassium litanium fluoride, tech. dms . I I. works, irt. equalib. Potassium zirconium fluoride, tech.	1.24	- 15a	į
0 15	-	oms . t I., works, frt.	.78	•	1
	_	Prodnisone USP dnis. 5 kilos or more gram Prodnisofone acotate. USP, dms., 5	1.03		!
0 0	-	MINOS OF ITIONS OF SITE	1.12		ļ
ю.	_ 1	Produisofono, anhyd , USP, dms, 8 kilos or moro	1.12	•	•
ŏ	-	otte grade, dms., 2,000-ib. lots, int. alid ib. Procame hydrochlanda,	4.85	575	İ
0	.46	USP, ampule grade, dms., 1,000- ib lots for pild	4.95	ts:	i
472 10	-	Propionaldehyde, tanks, f o b lb. Propionic acid, syn , pare, tanks, dlyd. E lb.	.35¥ .33	364	ĺ
10	-	n-Propyl acetate, tanks, divd tb. n-Propyl alcohol, tanks, divd b.	.63M .42	M	!
10 2	-	n-Propyi gallatodnis , 100 to 2,000-lb. lots, divdb, n-Propyl-p-hydroxybanzoate, USP,	11.50		!
7 37	=	500 kilos	10.80 10.38	:	;
n mur	tate).	Propyl paraben (see n-Propyl-p-hydroxyl Propyl thiouracil. dms., 50-kilo lots or more	benzoale) 55.00		!
57	-	n-Propylamine, dms., c i., divd %. Propylene, polymer grade, l.o.b. Tex.	.75	3 0	
931 <u>4</u> 32	_	and La. Guit Coast points . lb. chemical grade same basis lb.	.17% .15%	- .16	
	-	Propylene glycol, indust, tanks, f.o.b. lb. USP, tanks, f.o.b. E	40 43	4	
10	1.42	lanks, divd. E ib. Propylene oxide, tanks, I.o.b. works	.49	•	
38	_	frit equald	.07) 1.50	ĬJS	7
45	-	Pumice, dom, fine, 4F-0, bgs., ton lots ton medium, 0½-1½, bgs., ton lots . ton	270 00 300.00	:	
		coarse, 2-extra coarse, bgs , ton	300.00		
10 lic).	- ,	lotston Pumice, imp., Italian, fines, bgs., ton lots f o b. East Coastton	280.00	-	
		medium, bgs., ton lots f.o b. East Coastton coarso, bgs., ton lots f.o b. East	350.00	-	
29 72	1.31 12.39	Coast ton Pyrazolone red (red 38), dms.	300.00	•	
32	13.65	Works	5 25	535	
00	-	pyrothrins, ton lots, frt. alld. b. Pyrethrum, purif, 20% pyrethrins,	1.91 37.50	37.75	
00	-	drns. works lb. Pyridino, rold., 2-dug. c1, works drns	5.90	•	
44	-	dms ,	5.70 29.00	33.00	
00	45.00	Pyrites, Canadian 48-50% S. mines	4.50	500	
00 00	47.00 50.00	Pyrogalic ackd (see Pyrogalol) Pyrogaliol, 100-lb. dms., 1,000-lb.	13.70	1525	
60	51.50	kots, divd	10.70	,,	1
00 00	274.00 284.00	lack			
00	-				
64	-				ı
01 06	-	Quassia chips	.67 20.76	24.25	
gher.	••	alid. lb. rad, dms., ftl. alid. lb. scariot, dms., ftl. alid. lb.	17.76 21.75	19.00 24.25 19.00	
78	-	violet, dms., frt. olid	17.75 2.00	2.75	
09 20	-	Quinidine sulfato, USP, 1,000-02. drns., 2,000 oz. or more oz. Quinine hydrochloride, NF, 1,000-oz.	4.20	· 425 269	
17	Ξ	dms., 2,000 oz. or more oz. Quining sullate, USP XVIII, 1,000-oz.	2.45	250	. 1
30	-	Ome., 2,000 oz. or more oz. Cuinoline. dms., t.t., trt., equald, ib.	2.30 1.49 1.43		
80 60	-	tanka, same basisb.			,
00	_			<i>:</i>	
75 00	47.25 49.50			. •	
					j
52 42	_	R salt tech., 304 molecular wt b. Recemethionine, USP, 50-250	2.12 6.80	•'	
-T=	_	250-500 kilos kilo	6.60 A 60	-	ı
90 90	-	500 or more kilos kilo leed grade, 99% min., c.l., t.l. lb. Rapaseed oil, dins.	1.07 .684		l
05	-	Rauwolila serpentina root, powd. bis. dms	22.00		
05	•	Red carmine. No. 40 (see Carmine No. 4 Red precipitate. (see Mercuric oxide, (se Resemble, 1992, coust., bots, graff.		#	
10	_	Resorcing tech. bgs. Li., works.	3.96		
.10 .30	-	Resordinol, USP, cryst., drns. 50 kilo.	9.35 9.90		
65	-	Resorcinol monoacetate, dms. 1,000	1.00		
8IO,	divided by		9.26	400	:
111/2	15	PMA, dms., works. tungstated, PTMA, dms. 1.0.b. works.	11.50 105.00	165.0	
80 . 20 .	1.20	syn., data	15.20 145	70	
N.A.	***	Ahuberb root, india, whole, bgs. b. powd. bgs	94.50	#600	, i
00	160.00	Phubert root, india, whose pushing powd, bgs. Riboflavin, leed grade, 25 kilos, do. do. discontinuous phubers and	43.00	; ·	:
na .		Hiboflavin 5-phosphate-socialis	156.00	100	

	1.25	- 1	Sodium bicarbonate, USP, powd., reg. grade, bga., c.l., t.l., works, irt.	Sodium orthosilicate, te bgs., c.l., works
reit al, leic acid (see Castor of acids, split). ele selt (see Potassium-sodium tartrat ele selt (see Potassium-sodium tartrat	8).		equald	Sodium orthosilicate, ted fizke, dms., c.l., w
and sait (see Coaltar pitch, roofing.) oil, nat., NF, Bulgarian, otto.	50.00 3990	n	line, same basis 100 lbs. 17.20 - gran., same basis 100 lbs. 17.85 -	bgs., c.l., works Sodum oxelate, 99%, bgs.
which offer bots kilo. 225	ioos 00.00		gran., fine, same basis 100 lbs. 17.60 - Sodium bichromate, gran., bgs. c.l., l.l.,	Sodium pentachlorophe
mary oil, NF, Spanish, dms kilo Tunislan, dms		5.00	works, frt. equald	bgs Sodum pentobarbital (se
one resin, 30-45%, 100-lb. dms. worksunit-lb.	21	.23	frt, equald	Sodium perborate, tetrat bgs., c.l., t.l., wo
			Sodium bisultate, bulk, c.l., works ton 175.00 - dme., c.l.,	Sodium persulfate, 225-lb lbs. or more, f.o.t
		- 1	Sodium bisulfite, anhyd. bgs., c.l., 1.l., works, East 100 lbs. 28.50 -	55-lb. bgs. same basis Sodium phenobarbital (s
		1	works, West	Sodum phenosulionate, p Sodium phosphate, an
			basis, works, East 100 lbs. 20.60 - soin., 100%, bulk, works, West 100 lbs. 20.00 -	tech., bgs., c.l., equald
harin NF, gran., soluble, dms.	2.50	2.75	photographic grade, 43% soln., works	food grade, same Sodium phosphate, mo
1,000-lb. lots, frt. alld lb. nerin NF, powd., soluble, dms., less	3.75		Sodium borate NF, gran., bgs., q.l., workslb51 -	same basis food grade, same
than 20,000-lb. lots, frt. alid lb. ower oil, non-break. lanks, N.Y lb.	.47	.50 .97	powd., same basis	tribasic, tech., same b food grade, same
ibiedms., N.Y., dlvd lb. sleaves, Daimatlan, No. 1, bgs. lb.	.93 1.75 1.30	.e.	1000-5000 lbs. works lb. 19.88 21.90 Sodium borohydride, stabilized water	chiorinated, same to cryst., tech., same
banian, bgs	.80 90.00	-	soin., 12% NaBH ₄ , 100% basis, 3000 gai, tankwagon, works. lb. 17.45 –	cryst., food grad
imatian, cns		0.00	Sodium bromide, 99%, gran., 400-lb. dms., f.o.b. workslb. 1.04 -	USP, dried, powd works
vieldehyde tanks, f.o.b lb.	3.60	-	Sodium carbonate, decahydrate, bgs, c.l., t.l., workston. 284.00 -	Sodium picramete, tec ib. dms., dry be
ylamide, NF, gran., powd., dms., 2,000-lb. lots, one ship lb.	1.07	1.10	Sodium carbonate, cryst monohydrate (see Soda, ash) Sodium carbonate, monohydrated,	Sodium propionate, dm more, f.o.b. frt
cylic acid, tech., dms., c.t., t.t., works.	1.23	1.41	bgs., c.l., t.l., works ton 392.00 – Sodium carboxymethyl callulose (see CMC.)	Sodium pyrophosphate, c.f., works, frt. e
SP, cryst., dms., 1,000 lbs. or more	1.33	1.63	Sodium chlorate, bulk. 1.c., t.t., 1.o.b.works	food grade, non-leav works. frt. equ
morelb.	1.68	-	Sodium chlorate, cryst., 450-lb. dms., c.t., works. Elb27 -	Sodium pyrophosphai c.l., l.l., works
t, evaporated, common, 80-lb. bgs., c.l., t.l., North, works 80 lbs.	4.02	_]	Sodium chloride, tech. (see Sait.) Sodium chloride, USP, gran., bgslb29 -	Sodium pyrophosohu anhyd., tech.
buik, same basis ton chemical grade, same basis . 80 lbs.		61.20	Sodium chlorite, tech., dms., c.l., worksb. 1.17 1.27	works, irt. equ bulk, hopper co
t, rock, medium, coarse, seme ba- 8888	2.70	_	Sodium chromate, anhyd., dms., c.l., t.l., worksb67 -	sis food grade, bgs. , c
bulk, same basis ton ltcake, dom., bulk, works, 100%		25.00	Sodium chromate, tetrahydrate, bgs., c.l., t.l., works	sis Sodium salicylate, USI
N ₂ SO ₄ , basis, f.o.b. works E ton same basis W		98.00 99.00	Sodium citrate, gran., anhyd., 200-lb.	dms., 1,000-l works, frt. eq
ndalwood oli, E. Indian klio	145.00 102.00	-	Sodium citrate, USP, gran , dihydrate, 100-lb, bgs., t.l., f.o.b. ship-	USP, powd., 200-lb
ircosine, lech., tanks, works, frt. equald	.50	_	ping pointb74½ - Sodium cyanate. dms. 1,000-lb. lots.	Sodium sesquicarbon works
haefier's salt, paste, dms., 100% basis, works	2.59	_	works	bgs, c.l., t l. w Sodium silicate, solid
opolamine hydrobromide, USP, 100-oz. lots bots oz.	36.00	46.50	99% min., 200-lb. dms, min., f.o.b. works lb68 -	3.25 ratio, works
bacic acid, CP, bgs., c.l., works lb. punii., bgs., c.l., works lb.	2.14 2.13	-	Sodium diacetate, anhyd., dms., c.l., works	bga., c.l., t.l., w 1.95-2.00 ratio
ildirz mixture, dms., 5,000-lb. lote. lb. Hartum, powd., 99.99% Se. dms.,	.30\2	-	Sodium diacetate, FCC, 50-lb. bgs., t.l., dlyd, E. of Rockles lb	works bgs., c.l., t.l., wo
cont., 99.5% Se. same basis ib.	13.00 10.00	15.00	Sodium diacetate, tech., 50-lb. dms., c.l., workslb52 -	soin., 37.6° ratio, bulk
Pina leaves, Alexandria, whole and half, bla	.75	.80	Sodium erythorbete, powd., gran., t.f. or mixed t.l., f.o.b. shipping	equald "Ratio" indicates p
Dowd bla bys	.70 .90	71 1.10	point,	Sodium silicofluorid
iesame seed. Central American	1.00	1.20	Sodium ferrocyanide, bgs, t.l., works	works, frt. et Sodium stannate, dins
ienna pigment, burot, naner bos	.50	.51	Sodium fluoborate, tech., gran., dms., t.l., works, irt. equald ib. 1.77 -	Sodium suiferilate, di Sodium suifate, NF
raw naper hos Led wastes	.19V 2 .18V4	.28½ .23¾	Sodium fluoride, while, 97%, 400-lb.	2,000-lb. lote tech., detergent, i
lica, amorph, dry-grd., bgs., c.l., works 93%, 200 mash ton	31.00	32.50	100 bgs., c.l., same basis ib 60 - USP powd., 200-lb. dms., t.l.,	works. Gulf. Sodium sulfate, West
93%, 97%, 325 mech	32.00 34.50	33.60 35.50	f.o.b. shipping point ib. 4.69 - Sodium formate, bds. cl., works ib	frt, equald bulk, ci.l, East, si
98.5%, 325 mesh	37.00 51.50	54.50	Sodium gluconate, tech., 50-lb. 098-, 2 500 ths, or more (rt. alld., lb	Sodium sulfate, pho bgs., c.i., wo
400 mesh, micronized ton 99% under 15 microns, mi-	72.00	75.50	Sodum hydride, oil dispersion, 60% NaH 167-lb, dms., 10 dms.,	Sodium sulfhydrate dms., c.l
cranized	79.50	82.50	worksb. 1.86 - Sodium hydrosulfide. (see Sodium sulfhydrate.)	equald liq., 44-46%, tar
cronized. ton lica, hard-quartz, 99.5% SIO ₂ , 325	104.00	105.00	Sodium hydrosulfite, dms., C.l., t.l.,	Sodium sulfide, flake
	37.00	-	f.o.b. shipping point E ib	E., Irt. equal bga., same bask
140 mesh, bgs., c.l., works ton licon tetrachloride, tech., dms., c.l., works	34.75 .50	-	equald	Sodium suifide, fu works, E., fr
tanks, works. ib.	.36 5.35	=	Sodium hypophosphite, EN grade, 300 lb. dms f.o.b. works lb. 1.425 1.50	8odium sulfte, anty bgs, f.o.b. w 8odium sulfocyanide
hver bullon, ingots, cs Troy oz. hver cyankle, 80% Ag. 500-oz. lots oz. hver nitrate, ACS, 58.2 Troy oz. AG/	4.215	-	110 lb. dms	Sodium tetraborate (
Appark Chiebed bla Agrico, OZ.	3.161 1.00	:	Socken lodide, USP, cryst., 300- to 500-	c.l., works., Sodium thiocyanate.
ode ash, dense, 58% 100-lb, paper	1.85	1.85	Sodkurn lauryi aulfate, 30%, tanke, f.o.b, works	ib. dms., 6 f.o.b. works
bulk cl. same barrie	120.00 83.00	-	Sodium lignin sulfonate, bgs., c.l., works 100lbs. 25.50 -	tech., anhyd. dm more, worki
Same basis.	150.00	_	Sodium metableulite (see Sodium Disulme). Sodium metaborate, gotahydrate,	Sadkum thiosulfets, it anhyd., 100
oda, caustic, lo., 50%, sellers tenks	123.00	-		works, irt. ec cryst. pentahyora
Gulf Coast works, f.o.b., frt. equal., 76% Na ₂ O ton. 73%, same basis	175.00	195.00	Works	Sodium titanale, dm
	205.00 500.00	225.00 570.00	fused, drive, 24,000-lb, lots or more.	Sodium trichloroace bgs., c.i., frt
works C.I.	520.00	670.00	works , Bb. ,87 tanks, works ib70 .80	Bodium tripolyphosph t.l., works. fri
works	520.00	-	Sodium metaphosphata, text. bys.,	bulk, hopper cars, a food grade, bgs.,
beads, 76%, 400-lb, dms., c.l., works	27.50	28.50	toodorade bas al f.o.b. irt. squald.	Sodium tungstate.
rices for liq. rayon-type, \$15 ton high higher for solid, and \$20-\$30 to beads.	ier. Prices in Ion higher ic	r gren, and	100 lbs. 68.25 - Sodium metasilicale, anhyd., bgs., c.l. works	dma., 10,80 alid
oda, sai., conc., bgs., c.i.	0.04	0 DE	bulk, c.l., works 100 lbs . 25:30 pentahydrate, bgs., c.l. 1.0.b ship	Folin grade dins more, same
f n h works	3.35 .54	3.85	ping point 100 bs. 18.95 bulk, cl. works 100 bs. 17.20	Sodium-ammonium cryst., dens.
data (USP, 60%, gran. 100-			Sodium molybdate, anhyd., dms. f.d.b.	Sodium-formaldeh dms., t.l., f.
dom 300 lbs or mare its	. 6.00	6.75	cryst., dms., t.l., same basis	Socium-zirconyl sul ib. lots or m
b. lois or more (o b	5.00	. 0.70	Sodium Nitrate, USP, bgs., c.t., f.o.b.,	solvent naphtha, p aromatic,
works ib. odium antimonate, bgs., c.l., divd. E. ib. odium ascorbate, USP, dms., 100 kilos	4.73 1.49	1.50	frt, equald 100 lbs. 34.50 Sodium nitrate, dom., industrial, bgs.,	aromauc. 56°Fm.a.p. New Jersey
odium ascorbate, USP, dms., 100 kilos	9.30	10.50	Sociam hitrate, dorn, shoust sit, sign. 284.00 292.00 cl., works	Houston
frt. allel	7014	* ".*" •	GUN WINE.	Solvent naphtha, p 410°F, 60°L
Ci. I. fr and	4100	, <u>, .</u>	bulk, c.l., same basis ton 182.00 Imp., agriculturat, bulk, c.l.,	New Jersey
100-lb, dras., c.l., t., same hade lb	88%	-	same basis	Minols
ton-lots, same basisib.	.92	7:	(rt. equeld 100 lbs 37.25	# Augu
		1.14	的"特别"的"自己"的"自己"的"自己"的"自己"的"自己"的"自己"的"自己"的"自己	
			in Septimes (1971) Style (1986) September 1971	STEEL BACKET

Sodium orthosilicate, tech., anhyd., bgs., c.l., works160bs. 34.60 Sodium orthosilicate, tech., hydrated,	-	ALIFULA	AI	
fizke, dms., c.l., works. 100 lbs. 27.45 bgs., c.l., works 100 lbs. 28.25	-	CHEMIC	ΔL	.
Sodium oxalate, 99%, bgs., t.l., works. ib	}			•
bgs	1).	PRICES		
Sodium persuitate, 225-lb. drns., 24,000 lbs. or more, 1.o.b. plant lb	214 .361 4 314 -	WEEK ENDING AUGUST	15 10	
55-b. bgs. same basis b	arn).	Sorbitan monosteerate, drns., cl., tl.,	10, 15	00,
Sodium phosphate, enhyd., dibealo tech., bgs., c.l., t.l., works, frt. equald	0 -	30,000 lb. mln., f.o.b. works	.76	-
food grade, same basis, 100 hs. 57.5 Sodium phosphate, monobasic, tech., same basis 100 bs. 55.7		min., f.o.b. worksb. Sorbitol, USP, reg. 70% aqueous.	.80	-
food grade, same basis. 100 lbs. 59.7 tribesic, tech., same basis. 100 lbs. 52.2 food grade, same basis. 100 lbs. 63.2	5 - 5 52.75	dms., c.i., f.o.b. shipping point	.35 .30	- .74
chlorinated, same basis . 100 lbs. 31.5 cryst., tech., same basis . 100 lbs. 30.5 cryst., food grade, same ba-	- 0	gran., dms., c.l. t.l., works lb. powd., dms., c.l., t.l., works lb. Soybean med (See Ols, Fats & Waxes mark	.68 et report.)	.72
sls	50 – 19 .20½	Soybean oil (See Oils, Fata & Waxes market Soybean oil acidulated, scapstock, 95% acid, tanks, New York lb.	.14	.15
Sodium picramete, tech., paste. 200- ib. dms., dry basis, divd ib. 5.		Soybean oil, acid, dbl., dist., dmslb, tenkslb, a.d., dmslb.	.48 .43 .47	.59 .44 .58
Sodium pyrophosphate, acid, tech., bgs.,	54 - 	tanks	2.50 2	.43 2.70 5.00
c.J., works, frt. equald 100 fbs. 56. food grade, non-leavening, bgs., c.l., works. frt. equald 100 ibs. 61.	26 - .25 -	Midwest, native	0.00 12 5.00 18	2.00 5.50 5.25
Sodium pyrophosphate, ferric, dms., c.i., t.i., works	.3860 –	Spruce oil, dms	8.00 .29	.30
arihyd., tech., bgs., c.l., t.l., works, irt. equald 100 lbs. 44. bulk. hopper cars. same ba-	.75 -	Stannic oxide, dms., works fb.	N.A. N.A	-
sis	.60 – .00 –	Stannous chloride, antwd., dms. wks. lb. Stannous fluoborate, Rg., conc., dms., t.l., works, frt. equald lb.	2.50	-
Sodium salicylate, USP, cryst., 200-lb. dms., 1,000-lb. lots or more,	– –	Stannous oxide, dms., worksib. Stannous sulfate, dms., worksib. Stepric acid, double pressed, bulkib.	N A. N.A. .26	- .39
USP, powd., 200-lb. dma., 1,000-lb. lots or more, same basislb. 3	3.05 -	eingle-pressed, bulkb. triple-pressed, bulkbb. Stramonium leaves, bosbb.	.28 .32 .15	.375 40 .20
bgs, c.l., t l. works 100lbs. 198).00 ~ 3.00 -	Streptomych suffate, USP, bufkkulo. Strontium carbonate, glass grd., bgs., t.l., works	47.00 .37%	-
	5.70 -	Strontium nitrate, 50-15 bgs., c.l., works,	51.50	-
1.95-2.00 ratio, bulk. c.l., t.i., works	7.75 - !0.30 -	t.t. 1.o.b. works lb Styrene-acrylontrile resin, nat., bulk. 1.o.b. plant	.21 .77	-
bgs., cl., t.t., works 100 lbs. 2 soin., 37.6° soled, 3.22-3.25 ratio, bulk, c.i., t.i., frt.	! 2.15 -	cryst., bulk, same basis lb clear, same basis lb.	77 77 2.35	.81 81
equald	6.30 of 8iO ₂ divided	Styrol acetate, dms	2.00	2.10
Sodium sificofluoride, bgs., c.l., t.l., works, frt. equald 100 lbs. 1	7.95 19.75 N.A	Succinic anhydride, dms., c.l., t.l., t.o.b. work	1.71 33.10	-
Sodum stannate, dms. wks. frt. alid. E.b. Sodium sulfenilate, dms, works ib. Sodium sulfate, NF XII, powd., dms.,	.22 -	refy. E	1.18	-
	0.00 98.00	tanks, divd	1.10	-
bulk, ct.l, East, same basis ton 11	0.00 101.00 3.00 114.00	grade, 100-lb. dms., f.o.b. workskilo Sulfabenzamide, dms., 500 kilos. kilo.	12.50 39.50	13.50
Sodium sulfhydrate, flake, 70-72%,	7.00 53.00	Suirapenzamide-socium, diris., 500 kilos	25.00	-
equald	00.00 -	Sulfadiazine, USP, powd. dms., 500 kilos	20.00 53.00	23.50
Sodium sulfide, flake, dms., c.l., works, E., Irt. equald ton 47	70.00 -	Sui fadiazina-sodium, USP, dms., 500 kilo. kilo. Sultamarazine, USP, microcryatals.	40.70	-
Sodium suifide, fused, dms., c.i.,	10.00 - 10.00 -	oms., 500 kilos kilo. USP, powd., dms., 500 kilos kilo. Sulfamethezing-sodium, USP, powd.	33.50 32.00	Ξ
Sodium suiffte, anhyd., tech. 95-100%	23.76 yana(a).	dms., 50 kilos kilo. Sulfamethazine, powder, dms., 500 kilos	13.00 9.50	10.00
Sodium tetraborate (see Borex). Sodium tetrasulfide, liq. 34%, dms.,	10.00	Sulfamio scid, cryst., bgs., c.l., l.l., works 100 ibs.	38.00	41.00
8odium thiocyanate, purif., cryst., 250- lb, dms., 5 dms. or more f.o.b. worksb.	3.26 -	works b. Sulfanilamide, NF, reg. 1,000-lb. dms., frt. equaldb.	.36 · 2.00	-
tech., anhyd. dms., 2,000 lbs. or more workslb.	.97 -	Sulfamilio acid, tech., ogs., t., 1.0.0.	.671/2	-
	45.50 -	Suitequinoxeline, veterinary, grade, dme, bi, Suitur, crude, bright, molton, dom., f.o.b.	8.00 150.00	-:
Sortium titanate, dms., q.l., works., .lb.	28.50 - .14% -	vessels, Guifportslong-ton f.c.b. L.d. refy	125.50 125.60 135.00	=
Sodium irichloroscetate, 95%, 50-lb. b. ga, q.l., irt. alid. E lb. Bodium iripolyphosphate, tech. bgs., c.l., t.l., works. frt. equald. 100 lbs.	.28 - 39.76 -		102.00 157.50	Ξ
food grade, bos., c.l., t.l., same be-	37.50 - 48.50 -	dark, ex-Tanipa, Fla long-lon Sulfur, crude, 99.5% min. purity, comi. flour, 50-lb. bgs., cJ., mines		
Sodium tungstate, tech. high moly., dms., 10,800 lbs. or more, fri.	5.00 5.50	basis 100 fbe. lump, same basis 100 fbe. Suffur, refd., 89.5% min. purity, rolls	19.60	•
Folin grade dms., 10,800 lbs. or more, same bases	8.00 -	50-lb, bags, c.l., mines ba- als		
Sodium-ammonium phosphate, putti., cryst., dms., works lb. Sodium-formaldehyde sulfoxylate.	.62 - .91 -	Sulfur, refd., subtimed, NF, 99.85%	!	
dris., (.l., 1.0.b. works	.91 ~ .28 .16 -	Suifur, rubbermakers, 99.5% min. pu-	26.00	_
tech., dms., any quantity, works fb. Solvent naphtha, petroleum, atraight aromatic, b.r. 320°-350°F.	.14	fine, 98% min. passing through 325 meet, same basis . 100 lbs.	14.60	
New Jersey	1.52 - 1.41 -	Suifur dichloride, dins., c.i., works, irt. equald	.24	: <u>-</u>
Solvent raphtha, petroleum, straight are	1.54 matic, b.r. 360 1.30	er. Sulfur dioxide, Eq., comi. main-umi cara, dms., f.o.b. works lon tanks, works lon	275.00 210.00	220.00
Houston gal	1.30 1.30 1.35	Sultur monochloride, dms., cl., works,	a record	
Sorbic acid, t.1 dins., divd		MICAL MARKETING REPORTS		39
		Token in the late United States of the Asset States		

CHEMICAL MARKETING REPORTER August 18, 1986

Little (Det file)

The state of the s		A CANADA CONTRACTOR	<u> </u>
	Thorium nitrate, purif., dms., 100-lb.		Turmeric, Alleppey
ALIFULALI	iota or more, worksib.	2.75 - 28.00 -	Turpentine, crude suifate Southeast works
(:HFMIC:AL	Thyme teaves, French, bgs lb. Spanish, bgs lb.	.90 .95 .68 1.10	المنظوار المنظورين الاستا
CHEMICAL	Thyme oil, NF, red, dms kilo	20.00 - 22.00 -	
nniaec II	Thymol, NF	3.75 6.15	U
PRICES	works	52:30 58:20 N.A	
	Titanium dioxide, anatase, bgs., 20- toniots, frt. elidb.	.73 .74	Ultramarine blue pigmen blots, works
WEEK ENDING AUGUST 15, 1986	slurry shipments, 50-ton lots, dry ba- sis, irt. alidib.	.72 .74	violet, same basis Umber pigment, burnt,
Turic acid, virgin 190% tanks, works,	Titarium dioxide, rutile, reg., bga., 20- toniots, int. alid	.78 -	equaldrew, American, dom
East Coast	slurry shipments, 50 ton lots, dry basis, frt. slidlb.	.80 -	game basis Undecylenic acid, dms., .
Midwestton 80.25 - Southeastton 68.15 -	Non-chalking ruttle material costs 1c. per p Titanium hydride powd. electronics	26.50 -	Urea, 46% N, Ind., but
West Coast	grade, dms	.30 .35	46% N. agricultural, bi
9319, respectively. For price of 20% furning cleum, as is, add \$3-\$4 to above prices and multiply by 1.045.	200-gal cylinders c.t., same basis lib. Titanium eponge, 99,3%, (liber druma,	.50 -	46% N. agricultural, bulk, Uva-Ursi laavaa, bis
ffuric acid, emolier, 100% tanks, works, Gulf Coast	less than 5,000 lbs. f.o.b. wks	4.85 -	
New Mexico	Tobias acid, 2,000 lbs. or more lb.	2.45 - 50.08 -	W
inflowerseed oil, crude, 1.0.b. Min- neapolis	d-a-Tocopheryl acetate, 81% conc.,	57.49 -	· W
perphosphale, triple, 46% or more, a.p.a., run-ol-pile, bulk, c.l.,	d-a-Tocopharyl acid succinata, cryst.,	78.44 –	
Fis	di-a-Tocopheryl acetate, USP 50-kilo	27.40 -	Valerian root, Belgian, b Indian, bgs
		16.00 18.50 17.00 ~	Vanadium oxytrichlori cyls., works
	Tolu balsem, cns		Vanadium pentoxide, tech of V ₂ O ₃ , 550-ib. di
	Atlanta, Ga., divd gal. Bayonne, N.J., divd gal.	1.35 ~ 1.32 -	fused or flake, per ib. dms., works.
	Baytown, Tex., f.o.b gal. Chicago, Ili. divd gal.	1.37 - 1.2823 -	Vandyke brown, bags., t.l. Vanille beans, Madagas
le, dom., grd. New York bgs., c.l.,	Clairton, Pa., f.o.b gal. Deer Park, Tex., f.o.b gal.	1.15 - 1.37 -	Java, tins Vantilin, USP, dms., f.o.l
works	Ft. Wayne, Ind., divd gal. Gull Coast, spot, barges gal.	1.34 – .63 .65	Versinol Ag
works	Houston, Tex., divdgal. New Jersey Metro, divdgal.	1.22 - 1.32 -	Vetiverylacetate, dms. extra
cronized, bgs., c.i., works., ton 187.00 238.00 625 mesh, micronized, bgs.,	Philadeiphia, Pa., divd gal. Providence, R.I., divd gal. Toluene discoverable (mixed semess)	1.26 - 1.35 -	Vetiver of, Bourbon, dre Heitlan Java
c.l., works ton 200.00 -	Toluene di-isocyanate (mixed isomers), 80%, 2.4- and 20% 2,8- Isomers,	1.01	Victoria blue toners, mo dms
dom., ord., Calif. grd., bgs., c.l., workston 90.00 - ord., Vermont, off-color grd., bgs.,	jumbo tankcars, divd lb. p-Totuenesulionamide, powd., dms.,	1.01 - 3.55 -	tungstated, PTA, dm: Vinyl acetate monomer,
c.l., works	m-Toluidine, tech., bulk	3.10 - .72 .76	Vinyl chloride mono
works	bulk, same basis	.60 .64	grade, tanks, f.o Vinyl eiher, USP, ane bots., hospitals
works, frt. equetd ton 135.00 140.00 all oil, reid., acid, same basis lb	cl.,works	1.80 1.85 1.70 ~	2-Vinylpyrkline t.i., dma tanka, works
dist., lanks, same basis	flake, same basis fb. Toluklines, mixed, c-m-p, tech., ikquid,	1.95 -	Vinyttoluene, bulk, f.o.t Vitemin A, synthetic, dry, A units per gm., 5
works, frt. equald: lb	c.i.f.o.b. works lb. bulk same basis lb.	1.03 – .95 –	Vitemin A, ilq. in oil, phar
Fallow (see Oils, Falts & Waxes market report.) Fallow, falty acids, tech., non-ret.	Tolyltriezole, dms., 1,000-lb. lots, f.o.b. Cinchnati, Ohio lb.	2.90 -	units per gram, Vitamin A, feed grade
dms , c l , divid	Tonka beans, Angostura, prime, 1,000-lb.lotslb.	6.50 –	per gm Vitamin B, (see Thiamin Vitamin B
hydrogenated, tech., flake, bgs., c.l., dlvd	Toxaphene, dms., c.l., t.l., works lb. Tragacanth gum, No. 1, ribbons, cns. lb.	.38 36.00 40.00	Vitamin B ₁ Vitamin B ₁₂ , cryst., n (cyanocobalan
tanks, divd	fleked powder	12.50 15.00 .75 -	gram, tots
nařan, dma	Tributyi citrate, t.l., drums, 1.o.b., worksb.	1.70 -	(cyanocobalamin clum phosphate,
New York, bulk unit-ton 5.50 ankage, fert. grade (see Nitrogenous process tankage). annic acid, NF, (fuffy, bbls., 1,000- lb.	Tributyl phosphate, tarka, works lb. Tributylamine, dma., c.l., divdb.	1.65 1.77 1.39 -	Vitamin B ₁₂ , 0.1% tritu B ₁₂ (cyanocobal
tots	Trichloroscetic acid, tech., 300-lb.	1.33 -	mannitol, 25-kii Vitamin B _{ig} , cobalamin
ar acid cit, 16:18% t.l., dms., 1.o.b worksgal. 1.40	drns., c.i., f.o.b., works ib. USP, 100-ib. drns., frt. equald ib.	.94 - .99% -	with mannitol.
25-28%, LL, dms., f.o.b. works. gal. 1.59 – 50-53%, t.L, dms., f.o.b. works. gal. 1.87 –	1,2,4-Trichlorobenzene, pure, tanks, divdb. 1,1,1-Trichloroethane, tanks, con-	.611/2 -	Vitamin B ₁₂₁ , 1% Vitami sorbed on resin, gram tots, frt.sik
artaric acid, NF, 5gs ib. 1.20 1.50 elurium, metallurgical, (.o.b. works lb. 12.00 -	sumers, divdb. 1,1,2-Trichloroethane, tanks, f.o.b.	.40У≥	Vitamin B ₁₉ , 1% cobala NF, absorbed
erpin hydrate, NF, Imp., cryst., powd., 36 kilo drume, i.o.b. ship. pt.,	worksib. Trichkoroethylene, tanks, divdib.	.42 .38½	dms., frt. aid. po Vitamin B ₁₂ , 1% cya
frt. equald	Trichloroisocyanuric acid, dmsib. Trichlorophenoxyacetic acid (see 2.4.6-T	1.25 -	gelätin, 2.5-
Ferpinyl acetate, extra. drnsib. 2.40	Tricholine citrate, 65%, soin., non- ret. dms., 1,500-lb. lots, divd ib.	r 1.35 -	Vitamin C (see Ascorb
Ferpinyl propionate, dms lb. 4,50 – Fetrachioroethylene, tech. (see Perchloroethylene).	Tricresyl phosphate, tanks, f.o.b. worksib.	1.55 1.60	Vitamin D. (see Codily Vitamin E (see a-Toco
Fatrachloroethylene, USP, dms., c.l., LL, works	Tridecyl siconol, mixed isomers, lanks, divo	.67 ~	Vitamin H (see Blotin). Violet methyl toner (se
Fetraethyl orthositicate, bulk, f.o.b. works	Triathonolamine, 85%, tanks, divd. E. lb. 99%, tanks, same basis lb.	.45 .48 .45 .48	
Tetraethylene glycol, tanks, int. alid. lb	Triethanotamine lauryi sullate, tanka,	.27 W .27Va	I
dms., f.o.b. works,lb. 1.50 — Tetraethylenepentamine, tanks, same basislb. 1.70 1.75	Triethylamine, dms., cl., divdib. tanks, same baelsib. Triethyl. cirate, t.l., drums, 1.0.b.,	1.33 1,20 -	i yy
Tetraethylthiuram disulfide, tech., flake, dms., t.l., in. elid lb	works	1.82 – 1.15 –	
Tetrahydrofuran dms., c.l., t.l., f.o.b. works	Triethylene glycol, tanks, i.o.b. Guif ib. Triethylene glycol dipelargonate, tanks	.47 -	Wariarin 0.5%, dma., New York or C
tanks, same basis	1.o.b. works	.291/2 -	Wheat perm oil, cold- cold-processed
Memphis, Term	equaki	.35 - 1.43 1,45	White precipitate, US
Tetrahydrophthalic anhydride dma., c.l. i i f.o.b, worksib, .65 -	Tri-iso-totyl trimelitate, i.o.b. works ib.	.51 .55 .45 -	Whiting (see Calcium Wintergreen on, syn. (
Tetrapolassum phosphate (see Potessium phosphate, tetrabasic). Tetrasodium pyrophosphate (see Sodium pyrophosphate,	Tri-isopropanolamine, dms., c.i., frt.	.671/2	Witch hazel bark, bis.
tetrabasic.) Thaifium metal, divd	Trimeinylamine, anhyd., tanke, frt.	.54½ _	400 mesh, bgs., 325 mesh, bgs.,
Theobromine, bulk Lo.b. works lb. 4.00 4.50	25% soin., tanka, iri, squaid., 100% basisib.	631/2 -	high aspect ratio Wolfastonite, t.i., f. plant, general
Theophyline, USP, anhyd. 50-kilo dms 10,000-keb kis kBo 12 00 12.95	40% soin., tanks, irt. equald., 100% basis	.56V2 .67	325 mesh
Thiamine hydrochloride, USP 100- killo dins, divd	Trimethylolpropane bgs c.i. (J. divd. lb. Trimethylolpropane triacrylate, t.i.	73 -	1 1200 mesus
This mine mononitrate, USP, 100-kilo., dms., divo	Trippentaerythritol, tanks, frt. alid., E.ib.	1.50 - 1.00 -	Wool grasse, USP (s Wormseed oil (see C Wormwood oil, cns
Thiodiphenol. 98%, dms., f.o.b. works	Triphenyl phosphate, dms., t.l., frj. squald	1.84 :78	
Thioflavin green toners, molybdated, PMA, dms	Tris-(hydromethyl) nitromethane, solid.	.64 -	T V
tungstated PTA, dmstb. 5.60 5.85 Thioglycolic ecid, refd., dms., ton lots 100% ecid basistb. 2.97	t.I. works	ROS	
Thioindigold marcon, dms. frt. alid: tb. 7,50 - rads, dms. frt. alid: tb. 5,88 6.12	I-Tryptophan, dma, 25-kilo lote kilo Tung oil, tanks, imo, New York ib	62.00 65.00	
Thionyl chloride, high-purity, 99.5%, 24.000-lb, min. t.l., dms. frt.	Tungetic ackl 92/1/%, dms.,"1,780- 6,000 lbs., works	12.85	Xenthan gum, food 2 Works
equald	Turmeric, Alleppey		ind., grade, s

rmeric, Alleppey	.95	1.10	Xylene, petroleum, Ind. or nitration, tanks Alliance, La., f.o.b	1
Southeast works gal.	.70	80	Atlanta, Ga., divd	1
		` '	Baytown, Tex., f.o.b	1
			Clairton, Pa	1
	منديري	اسجاناجا	Houston, Tex., divdgal. New Jersey Metro, divdgal.	1
tramarine blue pigments, 550- 2,000 lb,-lots, worksb.	1.30	_	Xylene, petroleum, Ind. or nitration, tenks Philadelphia, Pa., divdgal.	1
violet, same basis	2.20	-	Providence, R.I., divd	1
equald	.13V2 .13V2	.15½ .14¾	Texas City, Tex	
decylenic acid, dms., workslb. ea. 46% N, Irid., bulk, 50-ton c.i.,	2.70	-	p-Xylene, tanks, divd lb. m-Xylenediamine, dms., t.l., f.o.b.	
divdton : 6% N. agricultural, bulk, divd. Mid-	200.00 200.00	220.00 215.00	worksb. 2,4-Xyildine, tech., ilq., c.l., t.l. f.o.b. worksb.	,
	210.00 210.00 ,22	-	Xylidines, mixed, o-m-p., dms., c.i., t.i., f.o.b. works b.	
M			V	
		05	Yara yara, 25-lb. cnslb.	-
lerlan root, Belgian, bgs lb. Indian, bgs lb. Inadium oxytrichloride, 3,000 lb.	.65 .45	. 85 -	Yeast, pure brewer,s debittered, NF, Sec- charomyces, LL, (.o.b. works . lb.	
cyla., works	5.40	-	Yerba, santa téaves, bls	3
of V ₂ O ₃ , 550-lb, dms., works lb. fused or fiske, per lb. V ₂ O ₈ , 550-	4.10	4.94	Ylang-ylang oll, extra grade lb. grade 1 lb. grade 2 lb.	1
B. dms., worksb. Indyke brown, bags., t.l., frt. equald. lb. Unlia beans, Madagascarib.	3.35 .274 37.00	3.65 _	grade 3	1
Java, tins	27.00 6.25	30.00		
rrip, dms	4.75 .64 80.50	5.00 		
extrab. tiver oil, Bourbon, dmab.	63.00 16.00	17.00		
Haitian	23.00 31.00	24.50	Zein, bgs., 2,000-lb. lotslb.	
toria blue toners, molybdated, PMA dmslb. tungstated, PTA, dmslb.	6.20 10.40	6.30	Zinc acetate, NF, dmsib. tech., dihydrate, bgs., t.l., works. ib. Zinc borate, tech., 43% ZnO, 37%	
yl acetate monomer, tanks, divd.lb. Iyl chloride monomer, polymer	.39	-	B ₂ O ₃ , 50-lb. bgs., 20,000-lb. t.l., f.o.b. workslb.	
grade, tanks, f.o.b. works , lb. lyl einer, USP, anestheela, 75-cc.	.28 1.56	-	cryst., 37% ZnO, 49% B ₂ O ₃ , 250-lb. dms, 20,000 lbs, t.l. f.o.b. wks. lb.	
bols., hospitalsbots. nyipyridine t.i., dma. workskilo. ınka, workskilo.	7.81 7.61	=	Zinc chloride, USP, gran., dms kilo Zinc chloride, tech., soln. 50%, tanks, f.o.b. Cleveland,	
nyitoluene, bulk, f.o.b. lb. emin A, synthetic, dry, pharm., 500,000 A units per gm., 50- kilo. kilo. kilo	.67	.731⁄2	Ohlo 100 lbs. Concord, N.C 100 lbs.	
units per gram. 10 kilo lots kilo	33.00 41.00	-	Freeport, Tex	
amin A, feed grade, 650,000 units per gmkilo.	18.70	23.85	Ofile	
ımin B, (see Thiamine hydrochtoride) Vitamin B ₁₂ (see Ribofiavin a ımin B ₁₂ , cryst., non-sterile, USP). and Yeast)	i.	Old Bridge, N.J 100 lbs. 70 degree, same basis Claveland,	
(cyanocobatamin), viale, 50-	8.00	9.75	Concord, NC 100 lbs. Old Bridge, NJ 100 lbs.	
gram, fota	10 75	10 75	l 72 degree geme basis Clevaland.	
cium phosphate, 25-kilo dina, kilo, amin B ₁₂ , 0.1% trituration of cryst. B ₁₂ (cyanocobalamin USP) with	10.76	12.75	Ohlo	
mannitol, 25-kilo, dmskilo. in B ₁₈ , cobalamin concentrate NF	15.80	-	Zinc chromate, bgs., divd	
with mennitol. 1,000 mcg, per gram, dms, per gram activity amin B ₁₂ , 1% Vitamin B ₁₂ , USP, ab-	19.45	-	Zinc ethylenediamine tetracetic acid.	
sorbed on realn, 5-kilō dms., 500- gram tots, frt.alid. per gram activity	y 16.65	_	8.4% Zn., ammonia salt soln., t.c., t. t., f.o.b. works	
tamin B ₁₅ , 1% cobalamin concentrate, NF, absorbed on resin, 5-kilo	15.40	_	I.o.b. works	
dms., frt. ald. per gram activity amin B ₁₂ , 1% cyanocobalamin in gelatin, 2.5-kilo dms., frt.		-	Zino metal, Nich grade, divid	
aldper gram activity tamin C (see Ascorbio acid).	15.40	-	Zino naphthenate, ilq. 8% Zn. dms., divd	
Itamin D (see Cholecalciferol) Itamin D₂ (see Codiiver and Fishliver o Itamin E (see a-Tocopherol and Whea	ilis). It germ olf		Zinc oxide photo conductive, bgs., c.l., frt. alid	
itamin E (èee a-Tocopharol and Whea Itamin H (see Blotin). Iolet methyl tonar (see Methyl violet to	mer)	-	Zinc oxide, USP 50-lb. bxs., c.l., rr. alidlb. Zinc oxide pigment, American process,	
			Zinc oxide pigment, French process	
W			regular, bgs., c.l., frt. alidlb. Zino phenoisulfonate, puril., gran., 250-lb. dma., t.l., frt. alidlb.	
77			Zinc pyridinathlone, 48% dispersion, dms., f.o.b. works	
Warish 0.5%, dms., ton lots, frt. alid.			Industrial grade	
New York or Chicago ib.	75	17.60	dms., int. alid lb. Zino silicofluoride, dms., c.i., t.i., works	
Wheat perm oil, cold-pressed, gal cold-processed gal White precipitate, USP, powd., 100-lb dms., f.o.b. works lb	14.00	-	I Zing alearate, USP, bulk, Li ID-	
vyrkiing (see Calcium cardonate). Wintercreen of swo (see Methyl sello:	detel	2 11.24	Zinc sullate, gran., monohydrate, in- dust. grade 36% Zn., bgs., cl., works. 100 lbs.	
Witch hazel bark, bis	. 1.35 . 1.75	i -	same basis	
400 mesh, bgs., c.i., works tor 325 mesh, bgs., c.i. works tor high aspect ratio, bgs., works tor	1 134.00 1 117.00) -	Zinc-ammonlum chloride, ogs., o.s.	
Wollastonita, t.i., f.o.b., producing	200.00) -	Zinc undecylenata, oma., works	•
325 meshto	n 140.00	141.00	Zircon gran, bgs., bulk c.i., works. wat	
1260 mesh tol Wool grease, USP (see Lanolin). Wormseed oil (see Chenopodium oil, I	MEV.	· -	Zirconium acelete soto., 25% ZrOs, dm8-,	
Wormwood oil, ens	31.00	36.00	22% ZrO ₂ , same bests b.	
V	• .		grade, dme., works	•
			2,000 lbs: min	
	٠.		electronic, same basis, ineulating, stabilized, 325°F same basis, ineulating, stabilized, 325°F same basis, ineulating, unstabilized, 325°F same basis.	٥.
Xenthan gum, food 300-lb. dms., l.o.t			hasia ting, unatabateo, asp basis. basis. densa, stabilized, 30F, sante basis. D Zirconium oxychoride, itq., etra, 5-tor iota, viorks.	1
works Ind., grade, same basis	5.6		Zirconium oxylchioride, ilq., otna, 5-tor loja, works.	
		1.25	the contract of the contract o	٠.

	Xylene, petroleum, Ind. or nitration, tenks Alliance, La., I.o.b	1.08 1.35	-
Ì	Bayonne, N.J., divd ggl. Bayonne, N.J. f.o.b gal.	1.36	-
l	Baytown, Tex., f.o.b gal.	1.31 1.40	-
Ì	Chicago, III., divdgal.	1.36	_
۱	Clairton, Pa gal.	1.22	Ξ
l	Ft. Wayne, Ind., dlvd gal.	1.37	_
۱	Guil Coasi, spot, barges gai, Houston, Tex, divd gai	.75	-
ı	New Jersey Metro, dlvdgal.	1.25 1.36	~
I	Xylene, petroleum, Ind. or nitration, tenks	1.00	-
	Philadelphia, Pa., divd gal.	1.38	_
	Providence, R.I., divd gai.	1.42	_
	South Bend, Ind., divd., gal.	1.37	-
	m-Xylene, high purity, tanks, f.o.b. Texas City, Texb.	0.0	
	o-Xylene, tanks, works lb.	.36 .126	
ı	p-Xylene, tanks, dlvd lb.	.195	.14
	m-Xylenediamine, dms., t.i., f.o.b.		_
	workslb.	1.70	-
	2,4-Xylidine, tech., liq., c.l., t.l. f.o.b.		
	worksib. Xylidines, mixed, o-m-p., dms., c.i., t.i.,	1.50	-
	f.o.b. works b.	1.00	

			Y		
lb.	.65	.85	Yara yara, 25-lb, cnslb.	2.81	
lb.	.45	-	Yeast, pure brewer,s debittered, NF, Sac- chargmyces, LL, f.o.b. works . lb.	1.10	
)O Ib.			Yerba, santa leaves, bis	2.40	-
lb.	5.40	-	extra, bots.	26.50	31.75
per lb.			Yiang-yiang oil, extra gradeib.	23.93	31.70
6 lb.	4.10	4.94	grade 1	19.09	-
, 550-			Grade 2	15.90	-
٠٠٠lb٠	3.35	3.65	grade 3	13.04	
≱d. jb.	2714	-	grade o	10,07	
lb.	37.00			_	
Ib.	27.00	30.00			
Ib.	6.25	-			
lb.	4.75	5.00			
- I	8.4		 		

	Z		
	Zein, bgs., 2,000-lb. lotslb.	7 50	9.3
	Zinc acetate, NF, dms ib.	1.00	1.7
	tech., dihydrate, bgs., t.l., works. lb.	1.60	-
	Zinc borate, tech , 43% ZnO, 37%		
	B ₂ O ₃ , 50-lb. bgs., 20,000-lb. t.l.,	.55	_
	f.o.b. works	.00	
	dms. 20,000 fbs. t.l. f.o.b. wks. lb.	.89	
	Zinc chloride, USP, gran., dms kilo	9.79	
	Zinc chioride, tech., soin. 50%,		
•	tanks, f.o.b. Cleveland,	00.00	
•	Ohlo 100 lbs.	20.20 20.20	
	Concard, N.C 100 lbs. Freeport, Tex 100 lbs.	20.20	
	Old Bridge, N.J 100 lbs.	20 20	
	65 degree, same basis Cleveland.		
	Ohio 100 lbs.	27.90	
	I Concord, N.C 100 lbs	27.90	
	Old Bridge, N.J 100 lbs.	27.90	
	70 degree, same basis Claveland.	29.70	
	Onlo	29.70 29.70	
	Old Bridge, NJ 100 lbs.	29.70	

	TO UGUING, SEVING DEGIS CHEVENING,	
	Ohlo 100 ibs.	29.7
	Concord, NC 100 lbs.	29.7
.75	Concold, NO 100 lbs	29.7
	Old Bridge, NJ 100 lbs.	23.1
	72 degree, same basis Cleveland,	
76	Onio 100 lbs.	33.2
.76	Concord, NC 100 lbs.	33.2
	Old Bridge, NJ 100 lbs.	33.2
	Old Bridge, No Too los.	1.1
_	Zinc chromate, bgs., divdib.	
	Zino cyanide, dms., c.i ib.	1.6
	Zino dust pigment type 1 & 2, dms., c.i.,	_
	i.o.b. plantib.	.5
-	Zinc ethylenediamine tetracetic acid,	
	0.40' To emposis selt colo	
	8.4% Zn., emmonia salt soln	.8
_	t.c., t. t., f.o.b. works lb.	- 4
	9% Zn., ammonia salt soin., t.c., t.t.,	
	f.o.b. works lb.	
	Zinc fluoborate, liq. conc., dms., t.l.,	
-	works, frt. equald lb.	.0
	Works, III. Squard,	- 2
	Zino metal, high grade, divd b.	•
_	Zinc naphthenate, Ilq. 8% Zn. dmg	
_	divd	- 4
	Zinc nitrate, tech., tiake 300-lb, dms lb.	
	Zinc oxide photo conductive, bgs., c.l.,	
	frt alld	

2.14

.4734

.61

8.80

4.76

375

aildib.	.4072
Zino oxide pigment, American process, lead-free bgs., c.l., frt. alid lb.	.40
Zinc oxide pigment, French process regular, bgs., c.l., frt. aldtb.	.41
Zino phenoisulfonate, puril., gran., 250-ib. dms., t.l., frt. eld ib.	1.82
Zinc pyridinathlone, 48% dispersion, dms., f.o.b, works ib.	8,60
Industrial grade	14,50
Zing resinate precip. 7.2-7.6% Zn. dms., in. slidib.	.45
Zino silicofluoride, dms., c.l., t.l., works	.17 .92
Zinc stearate, USP, bulk, t.l	.82
duat. grade 36% Zn., bgs., c.l., works. 100 lbs.	26.50
i – socioultural orada powd., Duik,	22.50
same basis 100 ibs.	

42 4.87 31 描 3.81

CENTRIFUGES

P5400 Sharples, 316 S/S RECONDITIONED P3400 Sharples, 316 S/S, (5) p3400 Sharples, 316 S/S, carbide tiles P3400 Sharples, 316 S/S, RECONDITIONED P860 Sharples, 316 S/S (2) 40"x 60" Bird, 304 S/S, reconditioned by mfr. Bird OBS, 316 S/S NX314 DeLaval, 316 S/S

NX314 DeLaval, 316 S/S

46" Sharples "Tornadomatic" 316 S/S (2)

48" Tolhurst, "Batch Master", S/S (2)

48" Sharples "Sludge-Pak" Model SP-6500, 316 S/S

48" Western States, "Sludge-A-Tron", 316 S/S, (3)

32" Baker-Perkins, pusher design, 316 S/S

28" AT&M suspended centrifuge, 304 S/S 5 H.P.

12" Krauss-Maffel, pusher designed, 316 S/S 8" Baker Perkins Pusher Design, 316 S/S 98600 Alfa-Laval pusher design, 316 S/S

SZEGVARI ATTRITORS

60 gal. Szegvari, jacketed, stainless steel 15 gal. Szegvari, jacketed, stainless steel

PRESSURE FILTERS

480 sq. ft. Durco-Enzinger, Model 60DHC489, 316SS 870 sq. ft. Niagara Model 370-348, 304SS 322.8 sq. ft. Funda Model R-30, 316 S/S, jktd., 40 HP 314 sq. ft. Niagara, Model 42-310-22, 304 S/S 259 sq. ft. Pronto, Model 3259, S/S (2) 160 sq. ft. Sparkler, Model 33S30, S/S (2) 107 sq. ft. Sparkler, Model 33S19, Nickle

VACUUM FILTERS 8'x16' Ametek, 316 ELC S/S LIKE NEW CONDITION

6'x6' Ametek, polypropylene 5'x7' Paxman, 316 S/S, precoat 18"x12" Eimco, 316 S/S, precoat

REACTORS-TANKS

8/S, G/L Reactors, up to 5000 gal. capacity, Tanks up to 15,000 gal. capacity (100's in stock) (S/S, G/L, C/S, FRP)

HORIZONTAL BELT FILTERS

8'x18' Elmco, rubber belt, vacuum (2) 4'x12' Elmco, rubber belt, vacuum (2) 2'x10' Straightline, rubber belt, complete 2'x7' Straightline, rubber belt, complete 1'x3' Elmco, rubber belt, complete

BELT FLAKERS 60"x60' Sandvick, S/S belt, with cooling delumper, all accessories. NEW CONDITION 30"x20' Sandvik, S/S belt flaker, complete

FITZ CHILSONATOR Size 18 x 30 Fitzpatrick Chilsonator System, all S/S construction, with size 30 granulator, with drives

BALL/PEBBLE MILLS 6'x8' Patterson Jacketed Steel Bell Mill, 50 H.P. 5'x8' Patterson Jacketed Steel Ball Mill, 30 H.P. 3'x4' Patterson Pebble Mill, aricite lined

SAND MILLS

2-30 Morehouse-Cowles Sand Mill, 50 H.P. 0-25 Morehouse-Cowles Sand Mills, 25 H.P. (2) 16-P Chicago Boller "Red Head" 30 H.P. 3-P Chicago Boller "Red Head," 7½ H.P. 3-P Chicago Boller "Red Head," 1½ H.P. Lab Chicago Boller "Red Head," 1 H.P.

LAB 3 ROLL MILLS 5"x12" J.H. Day, high speed, complete 4½"x10" Ross, high speed, complete 4"x8" Kent, high speed, complete

ALL NICKLE CONSTRUCTION 10 gal. Nooter Reactors, 30/50 PSI (2)

60 ACM Mikro Mill, 75 H.P. PC-38 Strong-Scott Pulvacon, 150 H.P. FASO-20 Fitzpatrick "Fitzmill", 7½ H.P. (2) D-8 Fitzpatrick "Fitzmill", 7½ H.P. (2)

107 sq. ft. U.S. Autojet Pressure Filter 5'x3' Ametek Rotary Vacuum Filter

JUST PURCHASED 7500 gal. Terre Haute Fermenters, 304 S/S, 50 psi (5) 4000 gal. horizontal batch still, S/S

2500 gal. Hicks tanks, 316L S/S, 50 psl or F/V 2000 gal. Nooter reactors, 316L S/S, 60/90 psl (8) 2000 gal. Pfaudler reactor, 316L S/S, 60/90 psl 2000 gal. Mueller reactor, 316L S/S, 60/90 psl

2000 gal. horizontal batch still, S/S (2)
1250 gal. S/S Mix Tanks, 10 HP Vari- Drive (2)
Mlsc. G/L tanks and kettles, to 3000 gal. (8)
ST 100 Aeromatic Fluid Bed Dryer, all S/S

WAYORHAWILLOWSE

Capting and adviced the continuous of the continuous co

RESIN MFG. EQUIPMENT—

OHIO LOCATION

turbine agitator, with condensor, receiver, piping,

15,000 gal. Stainless Steel Tanks, vertical, with internal colls, top entering 30 H.P. turbine agitators (3)
200 gal. Baker-Perkins Mixers, size 17GIM, type 304

stainless steel construction, fully jacketed, duples dispersion blades, screw tilt, 40 H.P. (5)

IMMEDIATE AVAILABILITY-CALL FOR DETAIL!

NEW LIQUIDATION

12-5,000 gal. Plaudler Reactors, C/S construction, rated 220 PSI internal, 80 PSI jacket, 50/25 H.P. Philadelphia

Complete Nara Vertical Fluid Bed Dryer System, all S/S 6'7" x 22'1", 2 stage, rated up to 10,000 #/hr., wit

heaters, blowers, cyclones Complete Proctor Vertical Flash Dryer System, all S/S, 3'1'

x 117'2'', with heater, blower cyclones
20,000 gal. Stainless Steel Mix Tanks, 13'6"x19', 20 H.P. (2)
16,000 gal. Stainless Steel Mix Tank, 12'x18'4", 10 H.P. (1)
15,000 gal. Stainless Steel Mix Tank, 9'6"x27'6" 40 H.P. (1)
8,500 gal. Stainless Steel Tank, 9'6"x15'2" (1)
8,000 gal. Glascote Vacuum Recalver, Glass-Lined (1)
7,000 gal. Stainless Steel Mix Tanks 13'x6"x8' 71'4 H.P. (2)

7,000 gal. Stainless Steel Mix Tanks, 13'x6"x8', 7½ H.P. (2) 8,500 gal. Glascote Vacuum Receiver, Glass-Lined (1)

2,250 gal. Stainless Steel Kettles, 6'8"x 8', jacketed, 3 H.P

(2)
2,000 gal. Stainless Steel Mix Tanks, 6'x8'4", 2 H.P. (3)
1,000 gal. Stainless Steel Kettles, 5'4"x6', Jacketed, 2 H.P. (2, 1,000 gal. Stainless Steel Jacketed Tanks, 5'4"x6' (2)

REACTORS

-A.O. Smith Silos, Glass-Lined, 14'x40', bolted

Derrick Screen, single deck, 3'x5' Misc. tanks, feeders, blowers, cyclones, pumps

30 gal. Pfaudier, 316 S/S, 60#/90# UNUSED 30 gal. Pfaudier, Glass-Lined, 25#/90# 10 gal. Pfaudier, Glass-Lined, 150#/85# 5 gal. Pfaudier, 316 S/S, 50#/80#

Manesty "Rotogran" Oscillating Granulator

28' long, 15 H.P. varidrive (2)

PVC Suspension Plant

40"x84" Patterson Screens, 1 deck, S/S (9)

SPECIAL OFFERING 33' dia. Niro Spray Dryers, 316 S/S, UNUSED (2) complete spray drying facility, never installed, including (2) 33' dia. chamber, Model F-350 centrifugal atomizers. All equipment new 1978, as shipped from Niro awaiting installation.

10' dia Niro Fiuld Bed Dryer, 304 3/S, UNUSED, complete system with drying chamber, heating-cooling systems, feed tanks, cyclone collectors, all piping.

VACUUM DRYERS

375 cu. ft. Stehning, Double Cone, S/S (9)
175 cu. ft. Venuleth, Double Cone, S/S (3)
60 cu. ft. DeDeltrich, Double Cone gless lined
50 cu. ft.F.J. Stokes Double Cone, 304 S/S
40 cu. ft. F.J. Stokes, Rotary, Vacuum, 30"x8; S/S
21 cu. ft. Balfour, Double Cone, glas lined
20"x10' Zimmer dble. screw Holofiltes, S/S |ktd.,vac. (3)

MIXERS

200 gal, B-P, C/S, algma, Jacketed, vac., 75 H.P. (3) 75 liter Papenmeir Mixer, S/S, Jacketed, 30 H.P. varidrive 8 cu. ft. Kelley Duplex, paddle, S/S, NEW 3.5 cu. ft. J.H. Day, Nauta, S/S 5000 gal. Struthers-Wells Reactor System, 347 S/S, 50 PSi or full vacuum internal, 75 PSI jacketed, 700°F,

DISPERSERS

25 H.P. Shar, XP, variable speed 15 H.P. Meyers, XP, variable speed

FARREL LAB 2 ROLL MILLS

35 gal. Patterson "Kneadermaster" Mixers, 304 stain-less steel, sigma blades, jacketed, 40 H.P. (5) 100 H.P. Sprout-Waldron Hammermills, Model CG-26 (5) 28" dia. Reltz Thermascrews, 304 S/S, jacketed trough 8"x16" Farrel Lab Mill, electrically heated, variable speed, variable friction 6"x13" Farrell Lab Mill, 10 HP drive 3"x7" Farrell Lab Mill, oil heated, variable speed

LITTLEFORD MIXERS

FKM 8000 D, 169 cu. ft., carbon steel, 4choppers FKM 8000 D, 169 cu. ft., carbon steel KM 4200 D, 86 cu. ft., jacketed, stainless steel FKM 3000 D, 65 cu. ft., jacketed, stainless steel KM 2000 D, 43 cu. ft., jacketed, stainless steel M 20 E, .42 cu. ft., jacketed stainless steel

S/S RIBBON BLENDERS 2-215 cu. ft. Cleveland Mixer, double ribbon, 25 H.P.

1-150 cu. ft. Readco, double ribbon, 40 H.P. 1–36 cu. ft. J.H. Day, double ribbon, 10 H.P.

ROSS PLANETARY MIXERS 0 gal. Ross, HDM-40, S/S, jacketed, vacuum, 10 H.P. varidrive (2)

25 gal. Ross, HDM-25, S/S, 15 H.P. varldrive 2 gal. Ross, 130-ELS, S/S, jacketed, vacuum, ¾ H.P. 2,250 gal. Steinless Steel Kettles, 6'8"x8', jacketed, 10

ARTISAN EVAPORATORS

50 sq. ft. Artisan "Roto-therm" Evaporators, all S/S construction, F/V internal, 150 PSI jacket (2) 1 sq. ft. Artisan "Rototherm" Lab System, all S/S

COMPACTING PRESSES

1-Butler, Epoxy-Lined, 9'x32' welded 220 CFM Sullaire Compressor, 125 PSI, rotary screw design 117 sq. (t. Milkro Pulsair Collector, Model 258-8-30, 9/9 78 ton Bipel Preform, Model 70T, complete 6½ ton Manesty, Model BB3A, 27 station 6½ ton Manesty, Model BB3A, 33 station 4 ton Manesty, Model F-3, single punch

REFRIGERATION

5000 gal. Struthers-Wells, 347 S/8, 50#/75#
2500 gal. Cryochem, 316 S/8, 75#/75#, with coll
1600 gal. Perry Products, 316 S/8, 75#/150#
750 gal. Pfaudier, Glass-Lined, 100#/90#
200 gal. Pfaudier, 316 S/8, 55#/60# UNUSED
200 gal. Pfaudier, Glass-Lined, 100#/75#
50 gal. Pfaudier, Glass-Lined, 25#/90# complete system 200 ton Lewis Package Chiller, complete
30 ton Application Engineers, Package Chiller
15 ton Application Engineers, Package Chiller
10 ton Application Engineers, Package Chiller
7 ton Mayer Package Chiller
5 ton Dunham Bush Package Chiller
5 ton Peuchen Package Chiller, (2)

SCREENS

48" Sweco, S/S, 1 deck 30" Sweco, 5/S, 2 deck 18" Kason, 5/S, 1 deck, unused (3) 36"x96" Rex-Carrier, 1 deck, S/S (4) 20"x48" Rolex, 1 deck, S/S

HEAT EXCHANGERS

2000 sq. ft. surface area-dozensi

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Federal Equipment Company

1SH Mikro PUlverizer, 5 H.P.

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August 18, 1986

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ITY MERCHANDISE ATA COMPETITIVE PRICE

21593-Sharples P5400 Sanitary Centrifuges w/200 HP motor, 25 HP back-drive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL

CALL: Ken Kyte (312) 350-2200

CENTRIFUGES

20827-Bird, 18"x24" steel, conical bowl. 20826-Bird, 24" x38" steet, con. bowf, gearbox 20819-Bird, 24" x38", SJS, 15 degree, contour bowl. 20684-Bird 24"x60", H series, steel w/motor. 20364-Bird 32" x 50", SS T316 contour, 76Hi 20137-Alfa Laval, NX 418-B31-60, 316SS, gearbox. 13565-Sharples, mdl. P 600, gearbox, motor. 19767-Unused Sharples, 3 phase, P3000, S/S, carbide. 20407-Sharples P2000 3 1656, 20 HP drive motor. 21359-Sharples P3000 w/gearbox. 20686-Sharples P3000, 52:1 gearbox, S/S casting. 21725-Sharples, P3400, S/S, gearbox & motor. 19249-Sharples, P5400, 316/317SS, 200 HP, gearbox

LARGE QUANTITY PRESSURE TANKS

Used 30,000 gal. Propene Tanks 9' dia. x 62' lg., dish heads 200 psi ASME. (48) Used 15,000 gal. Butane Tanks 9' dia. x 31' lg., dish hads

MUST MOVE . . . PRICED TO SELL! Call: (312) 350-2200

REACTORS

20252-Unused Reactor, 600 gai. 30498 dimple jktd. 10138-Pfaudler, 800 gpl., T-316 LSS, 55 PS(int/150 PS) 20909-Brighton reactor, 2000 gal., 316L SS, full dimpl. lkt. 20928-Brighton, 4000 gal., 6' dia. x 10', 316 ELC S/S 20456-Reactor, 4,000 gal., 316 S/S, 8' dla. x 7'9" st. side. 15475-Bnghton, 4000 gal., 316SS, vacuum.

20287-GH Hicks, 4000 gal., 316 SS, pipe coll jkt. 20923-Richmod Eng. Reactor, 4600 gal., T316 stain/clad. Plaudier 10,000 gal. reactors T316L, 100 psi int, 180 psi Plaudier 15,000 gal. reactor T316L, 100 ps/int., 200 psl jkt.,

TANKS-S/S

21131-Tank.950gal., T304SS.5'x6' dishbot., flat top, agit. 21283-Tank. S/8 vert., 1200 gal., 6' dia.x6', flat top & bot. 17474-1000 gal., T316SS, 54" da.x8'6", 3 HP agitator. 20651-Tark, SS, 9000 gal., egit., 12' da. x 14'6" H. 20656-Tank, SS, 12000 gal., 12' dia. x 14', flat bottom

open lop. 17043-Jos Oathorz, tank, 30488, 16,000 gal., 12'6'' da. x 22'91/2" long, 10 PSI.

DUST COLLECTORS

21125-Febri-Met Jdl.SC9-4B bin vent, 42 sq. ft. 16388-Mikro dust collector, 5/S, 63 sq. ft., mdl. 9-8-100, pulse jet. 21153-EVO, bin vent, 72 sq. ft., S/S, 5 HP

20253-Unused EVO oulse jet collector, mdi. 84BF009G, 90

21 192-JH Day mdl. R.J-18R.J36, 125 eq. ft., CS, 3 HP. 21222-Fabri-Jet, mdl. SQ18-80, 151 sq. lt. 20398-Pulse jet collector, "FlexiGeen," mdl. 58CT24 AV II w/176 sq. ft., cloth, C.S. 21288-Mikro dust collector, 285 sq. It., 8/S.

20256-Unused EVO Corp. pulse jet dust collector, mdl. 99BF030C, 350 sq. ft. 20256-Unused EVO Corp. dust collector, shaker type, md.

SCREENS

21203-Sprout Waldron silter, D10, 6 decks, 21150-Sprout Waldron, D10, 1 HP, 10 decks, 8/S conf. 21167-Sprout Waldron, D10, 2HP, 10 decks, 8/S cont.

NEW ITEMS:

22005 Littleford mod. FIGN/2000E, 43 cg. ft , 8/S. 21993-Neuda MGX 960 Mixer, ST, on weigh scales Patienmeir, 3.5 car. fl. mixer S/S, frl , 2-apeed. 21859-Doy mod. WN 112 sir compressor. 21859-Perry DJR 1600 gal. reactor, 731689 sgit. 21857-Plauder 300 gal. reactor GJL. 21857-Plauder 300 gal. reactor GJL. 21859-Patterson Paste mixer, 750 gal., C/8, 60 HP. (7) 21850-Shamples P3000, D-Center, 7316. 21796-Sherples P5400, D-Center, T316 w/gear

HP (2) 21799-Buss 1451 eq. ft., rotary veo dryer. 21803-Herschel 3.5 cu. (L., S/6 mixer. 21786-Baket Perkins Lab Mixer, 5 gal. jk.L., 2 HP, cisp. blade. 21768-Bird 24", 180" centriluge. S/S, standard. (2) 21804-Jh Day nobon blender, 5 cu, ft., 8/8, 80 psi jkt. 21805-Strong Scott ribbon blender, 8/9, 21 cu, ft. 5HP. 21807-Cumberland Grindor, mod. 30, w/hopper 21806-Herischel Mixer, mod. 250JS9, 25 cu, ft. 5/8 bowl. 21815-Pf

FILTER-ROTARY VAC.

15828-FE,inc. 36" dia.x12", S/S, string disc., 1/2 HP. 17477-FE, inc., 3' dia.x5', T316SS, belt disc., vac pump. 11653-Oliver T-316SS, precost 5'3"x8". 9226-Elmco valveless precoat, 6' dla. x 6' face, 8/S drum 19431-K.S. flexibelt, 6' dia, x 6' faco, 316SS. 18392-Elmco belt filter, 8"x 10", steel drum, w/Na 15827-Ametek, 8' dia x14'0" face, maxi-belt, S/S. 17936-Eimco, 316SS, 10' dia x 14', knife discharge.

17263-impco belt litter, 12' dia. x 12', 304SS, Nash vacuur 20251-K.S. T304, vacuum filter, 12' dia x 14', 304SS, flexi-

20323-Dorr Oliver 11'6"x16' face, S/S cont. parts. 11486-Eimco 10'x10'rolary vac. filter.

DRYER-ROTARY VAC.

19844-Bethlehem Porcupine Processor/Polyester Chip Crystalizer 30" dia. x 18' long, T304 SS, jkt. 20 HP (6)

Strong Scott Solidies 24" dia. x 16", S/S, jkt. No mtr. **FILTER PRESSES**

19846-Shriver P&F filter press, 12"x12" alum. plates. closed delivery, 23 chambers. 20534-Sperry Filter Press, 30", alumn 20539-Sperry filter press 30", 35 Aluminum plates, 357 sq.

15370-Shriver 32" x 32", polypropylene, 27 plates, ratchet closing. 15928-Shriver ALP, plate & frame, 18 36" x 36", S/S re-

20076-Sperry filter press, 36", cast iron plates, closed deliv 462-independent filter press, 42" x 42", polypropylene, 4 eye closed, 34 chambers. 0550-Sperry filter press, 42" Encicloser, 41 alum, plates.

CENT-BASKET VERT.

20978-Sharples SP6500 Sludge-Pac, 48"x30" S/S w/hydro drives. 21408-Delaval 22"x16" perf basket hyd. drive. 15815-Delaval Mark III, perf. basket, 40" x24", 316SS, 30

19446-Sharples Sludge-Pak, SP-5500, 40"x24" basket

19253-Western States, 48"x30", S/S perf. basket, 50HP hydr. drive, reconditioned.

PRESSES

HP hydr, drive.

UNUSED Manesty Express, 10 ton, 20 stations. 11 802-Colton Press mod. 260, 31 die stations, 1800 TAB. 21382-FJ Stokes rotary tablet, 15 station, 10 ton. 21418-Manesty rotary tablet, 16 station, 10 ton. 14425-Stokes Teb Press mod.#551, 51 station, 4 ton. 21417-FJ Stokes rotary, 27 station, 4 ton, double sided.

503881-Komerak Greaves, mdl. 75MSS briquetting press 20.5" dis. x 4.5" face. 13392-Fitzpatrick Chilsonator, 50 HP, mdj. HA-50-30-210. 18802-Stokes single puch press, 900-630-1 (14), 12 ton. 17224-Dorst compag., series TPA15, 20 tons. 3890-Stokes, mdl. R-4 press, 20 ton.

MIXER/EXTRUDER

17654-AMK 25 gal Mixttruder, Sigma, ST 7.5 HP. 18298-J.H. Day 25 gal. Dispersion, 25 HP van main, 10 HP

20998-AMK 30 gal. S/S, jkt. Sigma, 7.5 HP Main, 6 HP 21334-Ross 40 gal., S/S hot off jkt., Sigma 6" disch. screv

19826-AMK 50 gal. ST, jkt., Sigma. 19421-AMK 75 gal. ST, jkt., Sigma, 10" clach, screw. 17138-AMK 120 gal., \$7 Sigma, 11.5" screw.
17138-AMK 150 gal., \$/S, Sigma 15HP main, 10HP screw.
19494-AMK 150 gal., \$/S Sigma, 50 HP main, 10HP screw.
20116-AMK 150 gal., \$T, Sigma, 15 HP/10 HP.
503527-New Asion 300 gal., T304SS, mix extruder, Sigma, ixt., up to 200 HP main, 76 HP tryd. screw.

STILL INSTALLED ... CALL NOW 21350-B.P. 500 gal. Sigma steel, jkt.

25 speed,150 HP, Hyd. tilt MIXERS - PLOW

503755-Littleford, FKM 600D, 59 jacketed, 25 HP, 20754-Littleford, FKM 3000D 65 CF, S/8, full jacket. 20829-Littleford FKM 4200D, S/8, 87 cu. ft. JKT.

MIXER RIBBON

21120-Ribbon Blender, S/S, 10 cu. ft., jkt. SS, 150 psl. 20276-Read ribbon blender, 14.7 cu. ft. 304SS, 3 HP. 20616-Unused Day, 316SS, 23 cu. ft., 5HP. 20189-Robinson, 25 cu. ft., S/S, jecket, 10 HP. 20985-int'i 34 cu. (t. 8/8 db). ribbon, 5 HP. (4) 20212-Heas ribbon, 36 cu. ft.: S/S, 15 HP 19266-Ribbon Mix 80 cu. ft. T304 SS, 5 HP (4) 19566-Howe, 115 cu. ft., senitary 5/8, double spiral ribbon. 20983-Strong Scott blender, 130 cu. it., 304SS, 25 XP gear

ntotor. 21124-Ribbon Blander, 30488 jkt., 160 cu, fl., 30 HP, 20814-Unuged JH Deyribbon, 8/8 270 cu. ft., 25 HP., 21114-JH Dayribbon blander, 9/8 clad, 75 HP, 480 cu.ft. "UNUSED" EQUIPMENT LIQUIDATION SALE AT BARGAIN PRICES

ALL EQUIPMENT STORED IN WAREHOUSE, ON ORIGINAL SKIDS

LOCATION: SPRING GROVE, SOUTH CAROLINA

21717-Bins, 8/8, 67 cu.ft., 500 gal., 56"dis. (5) 21711-Bins, 30458, 850 cu.ft., 6300 gal., 5'6"dis. (10) 21628-Bins, 3041.85, 1300 CF/8700 gal., 11'6", 3'8. (2) 21718-Bilose, C/8, 50'dis.x 50'H. (4) 21634-Biower, Roots Rotary Lobe, mod.FTB 3505J, 5 HP, unitized, silencers. (4) 21636-Biower, Roots Rotary Lobe, mod.FTB2506J, 5 HP, silencers. (2) 21636-Biower, Roots Rotary Lobe, mod.3505J, 7.5 HP, silencers.

21636-Blower, Roote Rotery Lobe, mod.3505J, 7.5 HP, allenoers.
21633-Blower, Roote Rotery Lobe, mod.FTB406RCSJ, 10 HP, unitized. (6)
21638-Sowitzer Blower, C/S, 15 HP, 402 CFM.
21637-Blower, Roote Rotery Lobe, mod.FTB412RCSJ, 50 HP, 11632-Blower, Roote Rotery Lobe, mod.FTB412RCSJ, 50 HP, 1178-Schwitzer Blower, CS, 50 HP, 1126 CFM.
21739-New York Blower, earles 30, CS, 50 HP, (2)
21630-Blower, Roote Rotery Lobe, mod.FTB 624RCSJ, 100 HP, unitized. (2)
21631-Blower, Roote Rotery Lobe, mod.FTB616RCSJV, 100 HP, unitized. (3)
21628-Blower, Roote Rotery Lobe, mod.FTB616RCSJV, 100 HP, unitized. (3)
21628-Blower, Roote Rotery Lobe, mod.FTB624RCSJ, 150 HP, unitized. (3)
21630-Blower, Roote Rotery Lobe, mod.FTB624RCSJ, 150 HP, unitized. (3)
21630-Blower, Roote Rotery Lobe, mod.FTB624RCSJ, 150 HP, unitized. (3)
21630-Blower, Roote Rotery Lobe, mod.HB3900, T304 SS, contour bowl 10 deg., 150 HP. (3)
21703-Nooter Rotery Vacuum Dryer, 4'dla.x 14', 140 cu.ft., FV/100 pel Intern., 316SS, 100 HP. (6)
21658-Dust Collector, EVO, air pulse, 87 eq.ft., 281 CFM. (5)
21657-Dust Collector, EVO, air pulse, 87 eq.ft., 281 CFM. (5)
21657-Dust Collector, EVO, air pulse, 87 eq.ft., 281 CFM. (5)
21657-Dust Collector, EVO, air pulse, 87 eq.ft., 281 CFM. (5)
21657-Dust Collector, EVO, air pulse, 87 eq.ft., 281 CFM. (5)

21858-Duet Collector, EVO, air pulse, 304 83, 102 aq.ft., 484 GFM. (a)
21862-Rotary Valves/Feeders, flotronics, 6", 68, 3/4 HP, (36)
Rotary Valves/Feeders, flotronics, 6", 8/8 3/4 HP, (24)
21868-Rotary Valves/Feeders, flotronics, 10", CS, 1 HP, (40)
21868-Rotary Valves/Feeders, flotronics, 10", CS, 1 HP, (2)
21867-Rotary Valves/Feeders, flotronics, 10", 8/8, 1 HP, (2)
21867-Rotary Valves/Feeders, flotronics, 14", S/8, 3 HP, (2)
21872-Rotary Valves/Feeders, flotronics, 16", CS, 3 HP, (2)
21872-Rotary Valves/Feeders, flotronics, 16", CS, 5 HP, 21868-Rotary Valves/Feeders, flotronics, 16", CS, 5 HP, 21872-Decatemy Feeder, flotronics, 16", CS, 5 HP, 21872-Decatemy Feeder, flotronics, 16", CS, 6 HP, 21872-Decatemy Feeder, flotronics, 16", CS, 6 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 5 HP, 21872-Decatemy Feeder, vibrating, 24" W x 11", 1, 15 HP, 21872-Decatemy Feeder, 24 HP, 2

2164-Rotary Valves/Feeders, flotronics, 18", CS, 5 HP.
21676-Overstrom Feeder, vibrating, 24"W x 11"L, 1.6 HP.
21671-Overstrom Feeder, vibrating, 24"W x 12"L, 1.5 HP.
21681-Hot Air Furnace, Combustion Engineering, gas
fired, 5000 ACFM to 19,800 ACFM at 750 to 1050F. (4)
21648-test Exchanger, CS, 850 eq.ft.
21649-Trough Beit Conveyor, 30"x 40", 3 HP.
21648-Screw Conveyor, 3068x, twin screw, 20"L, 5 HP.
21648-Screw Conveyor, 3068s, twin screw, 20"L, 5 HP.
21642-Screw Conveyor, 3168s, 24"dia.x 16"8", 10 HP. (2)
21719-Diverter Valves, flotronics, 8", sluminum, air oper-

21721-Diverter Velves, flotronics, 4", sluminum, ek oper 21723-Diverter Valves, flotronics, 2", 5/5, sir opereid, () 21724-Diverter Valves, flotronics, 6", stumimum, sir oper

eted. (13) 21734-Diverter Valves, flotronics, 6", 8/8. (2) 21735-Diverter Valves, flotronics, 4", sluminum. (6) 21736-Diverter Valves, llotronics, 12", sluminum, sl

operated. 21647-Overstrom Conveyor, vibrating, 24"W x20"L, 139 21644-Pug Mill, 30485, 280 cu.ft., twin paddle, twin 3089 21693-Sprout Waldron Airmix Blender, 500 cu.t., 3048 21695-Automated Bagging System, twin screw leeds,

21695-Automated Begging System, twin screw feeds, 6"dia. wrscale, bag de-acrator, programmable controls. 21696-Semi Automatic Begging system, How Richardson mod.G317, hot seel bag closure.
21694-Palletizing/conveying system, transfer converts suto bag palletizer 10 leyer.
21683-Mikro mod.4th & 4MP, 125 HP, (20) 21700-Tripler Pump, 50 GPM, 1500 pai, 50 HP 21701-Pashody Sump Pump, 100 HP, (3) 21702-Gorman Rupp, 76 GPM, 3 HP, (3) 21741-Carrier Heating/cooling coll unit, roof top. (24) 21742-Sutton Steet Goncentrator, 25 HP blower. 21742-Sutton Steet Concentrator, 25 HP blower.
21705-Sutton Steet MO AM-100 Separator, blower, 18 HR
21707-AZO Centrifugal Screener, mod.8500Cl, 86, 5 HR
21705-Sutton Steet separator, mod.8500Cl, 86, 5 HR
21848-Ducon Cyclone, 3048S, 38 1 8 "dia., 7500 ACFM, (8)
21848-Ducon Cyclone, 38 3/8 "dia., 7500 ACFM, (9)
21709-Fume Scrubber, Croil Reynolds, FAP construction
21714-Tank, 750 gal., CS, apoxy tned, 5 'dia., flat top
21712-Tank, 6,000 gal., CS, dish heads.
21713-Tank, 8,000 gal., CS, dish heads, 900 pal. (7)
21710-Tank, 2000 gal., vert., 304SS, dish bottom, (7)
21710-Tank, 2000 gal. vert., FRP, 6 'dia. (3)
21848-Copper Armour cable, 25 KV 500 MCM, 5 NX, 1200 par reel
21691-Electric cable, 1 reel 710", 650-813355 SKV smm.

cable. 2/892-Electric cable, 1 reel 207', 650-8133563 5 KY amo

cable. 21890-"Dispozepak" Compactor, mod.D500, irashbolist 21687-Mikro Miet Lubrication System, two oil pumps, on 21697-Shrink Wrap Machine, 12 pallets p/h normal tals. (1) 21657-Shrink Wrap Machine, 12 pallets p/h normal tals. (1) 21655-Lawson Central Vacuum Cleanin System, cleaning tools & attachments. 21666-Lawson Central Vacuum cleaning System, cleaning

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21114-JH Day ribbon blender, 88 cled, 75 HP, 460 qu.ft., 8/8 21237-Shrink wrap oven, heat controls, vert. raising unit. 21119-Fitzmill D1606, 8/N D6-4168, 7.6 HP. 21119-Pitzmill D1808, 8/N D8-4188, 7.5 HP,
21230-Mikro Mill, 75 HP vari speed drive, (2)
21172-Bins, 30488, 30"x 30"x 30"x 3"x straide, 20 du.ft. (2)
21288-CS Bin, vert., 3'x2'x3'H, 30" come, 8" outlet, 35 du.ft.
21292-Bin, CS, 40"x40"x30"H, 35 du.ft.
21214-Bin, CS, 4"x4"x40"H, 55 du.ft.
21233-Hopper, 5"x5"x2"H, 60 du.ft.
21293-Bin, CS, 4"x4"x4"H, 60 du.ft.
21293-Bin, CS, 4"x4"x4"H, 60 du.ft.
21294-Hopper, 8S, 5"x5"x4", 107 du.ft.
21234-Hopper, 8S, 5"x5"x4", 107 du.ft.
21235-Bin, CS, 7"x7"x30", 200 du.ft.
21245-Bin, CS, 7"x7"x30", 200 du.ft.
21245-Bin, SS, 5"W x 10"L x 4"H, 220 du.ft., 1800 gai.
2144-Bailey blower, 36"dia, 3 HP.
21278-Blower, Celicote, FRP 4000-BA, mdl.CLMR16, 7 1/2 HP.

HR. 21178-Unused blower, Butorbuilt, mdl.8HV-B, S/N 67624. 21227-Buffalo Blower mdl. 6E, 25 HP. (2) 21307-Sutorbuilt Blower, mdl.9HV-B, 25 HP TEFC. (2) 2138-Buffalo Blower, size 7, 6/8, 60 HP. (2) 21161-Cleaver rooks Boiler, 25 HP, gas, 150 psl. 21111-Platform Bolesor lift, 4000 lb.csp., 48"x48", 1 1/2 HP. 21188-Fust. Collector. Earth the Set 6/6/6/14

21125-Dust Collector, Fabri-Jet mid.909-48 bin vent,42 2110-Bin verts, 58 eq.ft., Premier Fittsir, 30488. (2) 2115-Bin verts, 58 eq.ft., Premier Fittsir, 30488. (2) 21143-Dust Collector, 50 eq.ft., vert., CS, 16 HP blow, 21192-U Boy dust collector mid.RJ-18RJ36,125 eq.ft., CS, 1 1/2 HP blow, 3 HP

1 1/2 HP Blow.,3 HP
21222-Fabri-Jat dust collector mdl.8Q16-80,151 sq.ft..
21286-Mikro dust collector, 285 sq.ft., 8/8, type 48-8, 8163-478,
21163-Filterite filter, cart.mdl.910343, 1981, 300 pai 200R (2)
21163-Hot Air Furnace, gas fired, Kozma, 41/2*26*256*H, 10
21228-Hot Air Furnace, gas, Kozma, 8'x10'x8', 10HR
21228-Hot Air Furnace, gas, Kozma, 43088, 4'9"x8'x 5'6", 10 HP /1251-Stone sink, 11/4", 22"x22"x7"cleep.

SEVERAL SCREW CONVEYORS AND MANY OTHER ITEMS ALL AT BARGAIN PRICES

21203-Mikro Pulverizer, 100 HP, water added: (*)
21215-Mikro Pulverizer, 125 HP. (4)
21146-Mikro Pulverizer, 125 HP. (4)
21160-Mikro Pulverizer, spere assembly.
2117-Delumper, CS, 24"dis. x 14"W, 2 HP drive. (2)
21122-Entoleter, type 61D, series 14, 6 HP drive. (3)
21123-Pulvecron Strong Scott, md.38-B, 38"dis. (6) 16

variaped. (2)
21135-Plaudier Reactor, 1000 gal., 31688, jid.100 pal.
21235-Toledo Scale platform dial, 1000 b. dial x 1.
21275-Russell Finex twin turbo aleva manifeliation.
mdi.A159120,sanitary,twin 3 HP.
21116-Sprout Waldron eliter, D10, gyro whip.1 21150-Sprout Waldron sfler, D10, 1 MR 10 de 45 con-

21167-Sprout Waldron sitter, D10, 2 HP, 10 decks, \$6,000. 21168-Sprout Waldron sitter, D10, 2 HP, 6 decks, \$6,000. contacts.(2) 21203-Sprout Waldron sitter, D10, 8/4 HP, 6 decks, \$6,000.

cont. 21280-Rotap Sieve Shaker, 10 screens. 21134-Sprout pedestal effers, portable, 36485, 14 [6] [7] 21185-Svecc seperator, 30" md.L.2300865, 1/2 [6] [7] 21223-Aerodyne Duet Cyclone, mdl.30089, go 147 [7] 21141-Oydone, 3/8, 5'dla.x 20', 4'st.eide, 16' cone, 14' 21164-Oydone, 3/8, 6'dla.x 20', 4'st.eide, 16' cone, 14' 21164-Oydone, 3/8, 6'dla.x 25', 5'st.eide (2) 21165-Wet Scrubber, F/K WH-300 venturt, 30468, 50 Mg/s 21290-Tank, vert, 70 gal., 8/6, 2'dla.x3', ppen log, all bot, solitates. bot,agitator, 21291-Tank, 8/9, 70 gal., 2'dia,x 30"H; hinga top is

21297 - Innik, 1975, 70 gal., 30" disi.x 30", 5/4 Hft apiteles. 21299 - Tanik, 1975, 100 gal., 30" disi.x 30", 5/4 Hft apiteles. 21126 - Tanik, vert., 230 gal., 5/8, 36" disi.x 5/8", disi. top k 21267 - Tanik, vert., 250 gal., 245, 8" disi.x 5/8", disi. boltom. 21131-Tenk, 950 gml., 120489, 5'da x6' dien bolt top.agit. 21263-Tanic, 8/8 Vert., 1200 gal., Cale.: 8 usid top. bottom. 21267-Rober Disposa Pair, md.D-400, University ore, beller 2's, 2'.(2) BUY FROM CALUMET CITY, ILLINOIS LOCATION LARGE POLYSTYRENE PLANT LIQUIDATION SALE

21875-Bins, 176 cu. ft., S/S, cone bottom flat top. (4) 21904-Bins, 450 cu. ft., C/S, epoxy lined. (6) 21905-Bins, 500 cu. ft., C/S, epoxy lined, flat top, conical

bottom. (4) 21891-Bins, 450 cu. ft., C/S, epoxy lined. (8) 21895-Tank, 850 gal. vert. coal far apoxy lined. 21915-Goulds, C/S turbine pump, 200 HP. (2) 21926-IR Centrifugal pump mod. 3x7WLN, S/S.

21879-Sweco 60" Sifter.

21927-IR Centifuget pump mod. 1.5x5WN, 8/8

21929-IR Centrifugal pump mod. 3x7W, 15 HP (2) 21930-IR Centrifugal pump mod. 3x7W steel, 15 HP (2) 21916-Union Pump-Inline, C/S, mod. 4x6x8.5 VCK, 40 HP.

21883-Bird Centrifuge, 32x50, 80:1 gearbox

21920-Modern Wolding Tank, 4800 gai, horiz, rubber lined. 21919-Wolox extruder 8", 30:1 L/D ratio, 700 HP.

21871-Prodex extruder 8", 30:1 L/D ratio, 600 HP.

21874-Water beth, S/S, portable. (4) 21876-Coneir pelletizer, S/S, mod. 1024, 40 HP. (2)

(2) 21925-Permulit Water Softner, mod. BD42, on skid. 21885-Buffalo Blower, mod. 45-3C8, 75 HP, (3) 21892-Buffalo blower, alze 30, C/8, 10 HP (3) 21880-Sutor Bill Blower, C/8, 40 HP, (4)



21897-Tanks 17,000 gal. & 12,000 gal. 21909-Praudier Reactor, 15,000 gal. 316L SS dimple jkt. (3) 21699-Praudier Reactor, 1,500 gal., 316L SS dimple jkt. (2) 21698-Brighton Corp. Tank, 12,000 gal. vert., solid 316L SS.

(5) 21897-Metal Arta Corp. veesel, 17,000 gal. vert. 317L SS. (2) 21921-Modern Welding Tank, 4800 gal. Horiz.



21896-Pfaudier Reactor, 10,000 gal.

(3)
21913-Worthington cent. pump, S&B, 2 HP. (4)
21912-Union pump-iniline, \$75, 7.5 HP (2)
21918-Worthington cent. pump, C/S mod. 3x29 BPO (2)
21917-Ingersol Rand pump, in-line C/S. (2)
21878-Gorman Rupp pump, centrifugal, mod. 82EZ. (2)
21936-Chargair Pump #4, 10 HP. (4)
21870-Welex extruder 8", 30:1 L/O, 800 HP. 1903-Tank, 50,000 gal. vert. C/S apoxy, flat bot. conical top.

21993-1934, S40 gal., flat top & bottom.

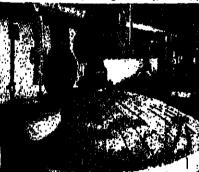
21911-Tank, 54000 gal. vert. C/S spoxy coated flat top/bot.

21925-Snithco mod. 7520, exchanger, T304 SS

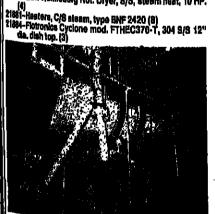
21935-Snithco mod. 7412, heat exchanger, steel (19)

21932-Snithco mod. 7412, heat exchanger, steel (2)

21933-Snithco mod. 7512, heat exchanger, 159 sq. ft. (3) 21934-Smithco mod. 7412, heat exchanger, 159 sq. ft. (34) 21935-Smithco mod. 7512, exchanger, steel, type BBAA (3)



21698-Brighton Corp. 12,000 gal. vessel. 21924-Perfex mod. 8870-132, 60 sq. ft., 150 psi. (5) 21901-Sparkler filler, 392 sq. ft. C/8, mod. VR-32-32. (2) 21803-Blad, 32x 50 centrifuge, 80:1 goarbox. (4) 21923-Ksson sitter 60", mod. K60189, 5/8, 1HP. 21679-Sweco sifter 60" mod. L860368, 2.5 HP. 21808-Edw Renneburg Rot. Dryer, 8/8, steem heat, 10 HP.



21886-Cyclone (Edw-Renneberg) 2'6" dia. x 4' (3) 21890-Kairon feeder, twin sorew volumetric, 5/5. (4) 21814-Fiotronics bin vent, filters, 122 sq. ft., 12 bags.

21888-Strong Scott Rib Blender 21922-Buffalo blower, typa 40-3CB, 40 HP. (4), 21908-Buffalo exhaust fan, size 35, type B, 16 HP, 21894-Buffalo blower, mod. 45-3CS, 75 HP. (5) 21893-Environeering scrubber, mod. A33-14000

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-Patterson Kelly 1500 cu. ft. CS blender 75 HP
-Paul O. Abbe 90 cu.it. SS joanit. jktd. vac. blender 50HP
-Nauta Mixer 70 cu.it. SS jo HP -Davine 100 cu.ft. Oble Cone Blender, C/S -J.H. Day 54 cu. ft. Ribbon Blender (2) Baker Perkins 150 gal. C/6 iktd vec. tiushe

CENTRIFUGES -Bird Centrifuge CS 40" x 50" Solid Bowl w/drive -Bird Centrifuge CS 18" x 28" Contour Bowl (UNUSED)

-Bird Centrifuge CS various sizes (8)
-Bird 38":50" 34759 Contour Bowl
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-Sharples P-5000 decanter \$9 100 HP

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-D &W Rotary vac. dryer, 316 SS, 2* 7*
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-Stokes vac shell dryers 48.9 sq.ft. (7)
-Plaudier 2.8 cu. ft. G/L dbl. cone vac. dryer
-Standard Hersey 4*30* Rotary dryer 8S
-Bowen Spray Dryers 7 ½* 8 5* 3S
-Aeromste fluid bed 8.3. dryer Model 100ST 20e
-Patterson-Kelley 5 cu. ft. SS Conical [Vac Dryer
-Stokes 8*30* Rotary Vac Gryer, Jittd, SS
-Gemco dbl. cone vac dryer 10 cu. ft. SS -Gemco dbl. cone vec dryer 10 cu. ft. 58 -Reitz rotary vac. dryer SS 3'x5' (complete system) -Patterson Kelley Twin Shell vac. dryer 75 cu. ft. FILTER\$

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-Ertel 12" SS filter press
-Hercules Filter 500 sq. ft. 316 SS
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-Shriver 36" ALP 316-SS, 41,48 Chambers (2)
-Evirex SS Rotary filters 6 x 8

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asch dimple [kitd 316 83/sanit evaporator 160 gal.
asch dimple [kitd 316 83/sanit evaporator 160 gal.
Patterson Kelley Twin Shell 1 cu. ft. vac. processor \$S - Alpine Selve Model # A-32-100 LS - Laffrey Fluid Bed Dryer - 300 gal. SS Disperation Tank (50) - 800 gal. SS Disperation Tank (50) - 900 gal. SS Disperation Tank Like New (2) - Fitzpatrick Fluid Bed Dryer SS Model # 75 Lab - Reltz disintegator SS 5 H.P. 865 R.P.M. - Autoclave 200 gal. SS 115/350

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-Strong Scott Rotary Vac Dryer, \$3, 3x12 -SS Kattles 400, 300, 200, 150 (25) Baker Perkins 100 gat CS jktd. Sigms Blade Mixer 500 gat SS jktd. agit resctor low pressure (2) -150 gal. Sigma Blade Mixer, CS, jktd. -Reitz Thermoscraw 6" x 10" -Artisan 1 sq. ft wiped IIIm S8 complete system

Lightnin mixers 1/2 HP w/shefts & props (20) NEW -Rose 15 gsl. 88 jkid. mhtruder 7 ½ HP Mdl. AMK 15 -Micro Atomizer 98 5HP XP Mdl. #5MA -Henschei high-intensity mixer Model FM 600 14 cu. ft. 88 jktd. w/aftercooler (complete system)

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-Pronto Filter SS 30" Dis., 450 pet
-Industrial Filter 100 eq.ft. Type 122 ID 31 Model OMD
-Enzinger leaf filter SS 360 eq.ft.

-Enzinger leaf filter SS 350 eq.ft.

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-4000 gal.316 SS reactor w/pipe coli (4)
-Prisuder 2000 gal. fktd reactor 155 pel/75 pal
-No walk 3000 & 750 gal. SS reactor dimple [ktd FV/50 -2500 gal. SS reactor 90/50 pai -Plaudier 200 gal SS reactor -Plaudier 200 gal QL Reactor 90/90 pai Unused -Downington 1500 gal QL Reactor, 90/100 pai -Glascote 3000 gal QL Reactor, 90/100 pai -13,500 gal. 304 Elc Dim., uktd, Reactor, 30/100 pai

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Tanks: 250-1600 Gal. storage & mbdrg, 3/8 & fiberglass 5000 Gal. 304 8/8 storage tank, vertical, closed, clished hele. (2) Richmond 3000 Gal. 8/8 Resotors, 6/44 PSI, 50 HP 2-8pd. Richmond 3000 Gal. 8/8 Resotors, 6/44 PSI, 50 HP 2-8pd. (3) Pfaudier 30 Gal. 9/8 Resotors, 60/40 PSI, 20 HP. (3) Pfaudier 30 Gal. 9/8 Resotors, 60/90 PSI, 1/9 HP XP V/S. Hercules 500 8g. Ft. "Roto-Jet" Filter, 3/16 5/8, 60 PSI, Jacobson 4057-11 "Universal" Hammer Mil., 100 HP. (2) Embleter Type EIM "Centrimit", 48" Dia., 3/18 5/8, 180 HP. (2) Embleter Type EIM "Centrimit", 48" Dia., 3/18 5/8, 180 HP. (2) Embleter Type EIM "Centrimit", 48" Dia., 3/18 5/8, 180 HP. (2) Embleter Type EIM "Centrimit", 48" Dia., 3/18 5/8, 180 HP. Hammer Mil., 100 HP. (3) High Spised Disperser S/B, XP #2 6pd, Couries 60 HP V/S Disperser, XP, 8/8, High-speed. (3) Busineyer model SRS & and MRS., 30 HP XP. (3) Busineyer model SRS & and MRS., 30 HP XP. (4) Busineyer Mills Mills, 104 HP. (4) Her Sized Mills, 104 HP. (4) Her Sized Mills, 104 HP. (4) Her Sized Mills, 104 HP. (4) Her Sized Mills, 104 HP. Petterson Steel Ball Mills, 5"x8" & 8"x5" and officer sizes.

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VACUUM PUMP-150 CFM (2) 26" Nath H-6, 25 HP
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oryer 1) 32''die. x 17'6'' Sandvik 8S belt flaker 1) 36''die.x 10' Bullovek Cl dbie. drum dryer 3) 42''die.x120''Biew Knox Cl dbie. drum

drum 48"dia.x 40" Ci flaker, mfg. by Buffeld 1 1) -48"dia.x 40 drum flaker, nickel plated

Fluid Bed (1) 60 Kg. Aeromatic, Batch, 6'x9', 55,000 (1) 100 Kg. Aeromatic Model ST 100, sanitary 68 1) Fitzpatrick Model FA 250, SS, 20 HP XP

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(1) 37.8 8q. Ft. Horiz. Thin Film, vac. int. & 150 pelg. 304/31688 (1) 30 Cu. Ft. P-K Twin Shell, 30488 (1) 20 Cu. Ft. Abbe Twin Cone, 30488

(1) 30"x3" Bowen Laboratory w/3" cone bottom, SS constr., w/centrifugel atomizer, 3-HP blower & motor.(1)
(1) Niro lab size 32"diax2"w/2"cone w/centrif. atomizer SS contacts
(1) 7"10" Dia. Anhydro Complete System, senitary SS
(1) 18" dia. Bowen compit. system SS contacts, new 1976

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(1) Delaval BRPX 309, 85, 20HP 1) Unused Model B-10 Podbielniak, Alloy 20 1) Sherples AS-26, SS

(1) Sharples A5-29, 55
(2) Sharples A5-16P, 316SS
(1) Alfa-Laval S9 Decanter, Horiz., Mdl. NX314
(2) Dorr Oliver Mdl. CH30 CSU "Merco," 316SS contacts, 150 HP
(1) Baker Perkins S-82 "Pusher Type," S9, 50 HP

(1) Bird 18" x 28", 316 ELC, contour bowl. (2) Bird 24" x 38", 316 ES, 40 HP (3) Sharples P-3000, 31698, 30 HP (1) Sharples P-1000, 88 20HP 1) Unused Bird 36 x96, 317L SS

Tolhurst 48" x 24" perf. basket, 318SS canllary, auto. plow & discharge, rated 85 #/cu. It. @ 900 RPM, 20 HP XP.
 Tolhurst 48" x 24" Batchmaster, 3168S, perf. basket, w/hydr. plow & 20 HP hydr. drive (1) Tolhurst 48" x24" Batchmaster, rubber lined, perf. basket, w/hydr. plow & 20HP hydr. drive (2) Tolhurst 48" x24" Batchmaster, rubber lined, perf. basket, w/hydr. plow & 20HP hydr. drive (2) Tolhurst 48" x 24" Batchmaster, Mozaella

Tolhurst 48" x 24" Batchmaster, Heresite ilned, perf. basket, w/hydr. plow & 20 HP hydr. drive Westorn states 48" x 24", 316 89

1) Flatcher 48"x 28" Suspended type, SS perf.

(1) Fatcher 48" x 28" Suspended type, 55 perf. basket, 20/10 HP (1) Sharples Tornado 48" x 30", 31658, perf. basket, 40 HP XP (1) Alia Laval Model MAPX 210 T24, SS watted

parts (2) Sharples C-27, 316 SS, wetted parts, 40 HP (1) Sharples C-20, Super-D-Hydrator, 89, 30 HP (1) Dorr Oliver Marcone Sareanar Model C-400 X2, all SS, twin screw diach., 10 HP

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DISMANTLING

RE-ERECTION

DEMOLITION

COMPLETE PLANT AVAILABLE FOR SALE

AMMONIA 200 TPD 300 TPD 700 TPD NITRIC ACID **120 TPD**

220 TPD CHIP WASHING 6100 CU, FT, HR

760 TPD **AMMONIUM NITRATE** 450 TPY

550 TPD

130 TPD

150 TPD

250 TPD

ETHONAL 2MMGPY

SOY BEAN

ATTRACTIVELY PRICED

SAVE

1 - Approx. 51 Sq. Ft., Pfaudler, Wiped Film Evapor. 316 SS wetted parts ASME Coded,. Jacket rated 100 psi w/internal vacuum. Complete w/flange mounted motor to Pfaudler TW drive w/mechanical seal, lubricator & integral heat

exchanger. Call today for more details

EVAPORATORS

(1) 1 Sq. Fl. Artislan "Konico" Ajust-O-Film sys., 31685 (1) 1.4 Sq. Fl. Luwa Wiped Film, 31685, 1.5 HP (1) 1.4 sq. Fl. Luwa thin Rim S8 (1) 2.6 Sq. Fl. Rodney Hunt Turbo Film 347 SS (1) 5.4 sq. Fl. Luwa Rimitudev, 318 LSS (1) 6.6 Sq. Fl. Volator Evaporator System, 316 SS contracts, 15

pal å FV å int., 150 pal jkt.

(1) 8.7 Sq. Ft. Rodney Huni Turbo-Frim, 304 SS contact parts, 15 pal å FV/150 pal jckt.

(1) 10.5 Sq. Ft. Luwa SS Wipad Frim Evap. System, 15/550 pal

(1) 19.5 Sq. Ft. Luwa SS Wipad Frim Evap. System, 15/550 pal

(1) 19.5 Sq. Ft. Votator Turba-Frim, 304 Sanit. SS FV/150 pal

(1) 20 Sq. Ft. Kontro Horiz. Adjust-O-Film, 316ELC, 50 paig, 15 (1) Approx 31 Sq. ft. Vert., Turbo-Film Processor, 304 SS (1) Like New 37.8 Sq. Ft. Luwa Horlz. Thin-Film Dryer, 304/316L

SS (1) 40 Sq. Ft. Kontro Adjust-O-Film, SS constr., 20 HP 1) 40 Sq. Ft. Konton Agustev-rus, 33 commun, 30 mm 1) 47 Sq. Ft. Artisan rising Film, Hast. "C" 1) Approx 51 sq. ft. Pfaudier Wiped film, 318 SS, 100/85 & FV (1) 80 Sq. Ft. Kontro Wiped Film Syst., SS constr., FV/150 psl,

(1) UNUSED 86 sq. ft. Luws thin film dryer hortz, 316 L wetled parts, FV int., 150 pel set eteam jkt.
(1) 141 Sq. Fl. Rodney Hunt Turbo-Film, 316 SS 15 pel int., 35 pel int 40 HP XP

> • • • TANKS-ALL TYPES & SIZES

BLENDERS

BLENDERS

800 Cu. Ft. jiktd. DibtRbn., C8
Approx. 480 Cu. Ft. CS, 78HP
UNUSED 460 Cu. Ft. McGinto Paddle, CS, 78 HP
200 Cu. Ft. CS Dib. Cone, 30 HP
200 Cu. Ft. KS 3168S Dib. Cone
176 Cu. Ft. P.K. Ywin Shell, 316SS
69.3 Cu. Ft. GB Dib. Cone, 7.5 HP
83 Cu. Ft. Marlon Paddle, CS
80 Cu. Ft. Gemco Dib. Cone, 304SS
00 Cu. Ft. Gemco Dib. Cone, 304SS
00 Cu. Ft. P.K., 304 SS P.K., Twin Shell, w/int. bar
00 Cu. Ft. Gemco Dib. Cone, 304SS
10 Cu. Ft. Robinson Dib, Rbn. CS
1 Cu. Ft. Robinson Dib, Rbn. CS
1 Cu. Ft. WG Marlon SS
1 Cu. Ft. WG Marlon SS
1 Cu. Ft. P.K Sant Twin Shell 1 1/4HP
1 Cu. Ft. P.K Sant Twin Shell 1 1/4HP
1 Cu. Ft. SS, Dib. Cone W/ilquid-qolids bar
Cu. Ft. P.K Twin Shell, SS Conetr., w/pin int. bar
1 P.K. xig zag

FILTERS

Pressure Leaf -562 Sq. Ft., 316ELC, Hercules. 28 leaves 1-512 Sq. Ft., 316SS, Niagara, 21

1-400 Sq. Ft. R/L Sparkler 1-327 Sq. Ft., 304SS, Ind. Filter, 11

1-320 Sq. Ft. Durco 316 SS, 11 Leaves 1-259 Sq. Ft. Pronto Mdl. #3259, 75 psig 1-Approx. 206 Sq. Ft., SS, Sparkler,

l -200 Sq. Ft., SS, Hercules, Horiz. 1-191 Sq. Ft. Enzinger, SS, Vert., 75 psi 1-157.64 sq. Ft. Sparkler model 55-5-28, 3168S 1-150 Sq. Ft. Horiz., 12 Vert. Leaf 316SS

1-135 Sq. Ft. Ni, Bowser, Vert. 1-35 Sq. Ft. Hercules Model 5, 316 SS, horiz. tank vert leaves 50 psi

Rotary Vacuum 1-56.5 Sq. Ft. KS, inconel 600 2-56.5 Sq. Ft. K-S, 316SS, flexibelt

1-87.92 Sq. Ft. Feinc, SS wetted parts. spring disch., 56" dia. x 6' face drum 1–132 Sq. Ft. Dorr Oliver, 304SS, maxibelt disch. 1-200 Sq. Ft. Eimco, 316SS, 8'x8' 4-250 Sq. Ft. D.O. 316L SS Precost, 8"

x10', sanit
1-250 Sq. Ft. K-8 3168S, coll disch.
1-300 Sq. Ft. Elmco, 316SS wetted parts, precoat type w/knife disch., 10" dia. x 10' drum, compit. w/control panel & aux. equipment
1-314 Sq. Ft. Elmco, precoat disch., 316SS

1-400 Sq. Ft. Elmco, CS, Precoal

1-500 Sq. Ft. Elmco, 3168S, belt disch. 1-3'x1' 3168S, knife disch. 1-3'x1' Dorr Oliver, FRP w/receiver & Nash H4 vac. pump, 10 HP 1-3'x 1' K-S comp. sys., 316 SS Flex-

RECENT PURCHASES

120,000 gal. Capacity Propane Storage System consisting of 2-60,000 Gal. Propane Tanks. Compressores, Pumps

400 gal. G/L Pfaudler Vert Re-1750 gal. Reactor 316 SS, 15

PSI Int. 40 psi Jckt. St Regis Bag Packer, Model #718 MLT.

IDM

** 9650 SCFM Thermo Energy Recovery System **

Propane Storage System 120,000 gal. Capacity Propane

5000 Gal. 304 SS jcktd., Mix Tank 2' dla.x 3' Chrome Plated Flaker

Alfa-Laval Centrifuge, Model NX214/314. 8000gal. CS, Ammonia Storage Tank, 250 PSI. 75 gai. Groen Kettle, SS Single motion, 125 Pei Joktd.

•• FILTER BONANZA ••

Sparkler pressure leaf Filters, All stainless Steel Construction 2-Model #33D9 1-Model #18D12 1-Model #184D 1-Model #33\$28

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GLASS...GLASS...GLASS

WE ARE GLASS SPECIALISTS WITH A TREMENDOUS INVENTORY FFA TURING UNUSED, USED AND REG. LASSED ITEMS. OUR SHOP PER. SONNEL ARE FULLY TRAINED TO HANDLE GLASS.

REACTORS **Glass Lined**

4,000 Gal. Pfaudler, 100/90 psi, TW 1,000 Gal. Pfaudler, 100&FV/90 ps

1,000 Gal. Pfaudler, RA60 Series, 100& FV/90 psi, 4DW
1,000 Gal. Pfaudler, RA60 Series, 100&
FV/90 psi, 4TW
800 Gal. SS clad, 60/60 psi
750 gal. DeDietrick, Phila drive

500 Gal. Pfaudier, 100&FV/85 psl, BH drive 500 Gal. Pfaudier E-series, 4 TW Drive

75 Gal. Pfaudler, 25 & FV/85 pel, 2 HP 50 Gal. Pflauder Body-UNUSED, 25 FV/ *Partial Listing - Much More inventory Glass Lined Storage Tanks & Parts also Available.

Stainless Steel

4,000 Gal. 316SS, Atmos./50 psi, withcolls 3.000 Gal. 347SS Blaw Knox, 150/50 psi 2,500 Gal. 316L SS, 75/75 psi, 150 psi int. colls 2000 Gal. Nooter Autoclave, 316L 2000 pei, FV int. coils

2,000 Gal. Dusenberg, 316 SS,15/35 8 FV int., 50 pai jkt. 1,750 Gal. 316SS Noite, 1467/50 pai

1,500 Gal. 304SS, 10 HP Lightnin 1,000 Gal. 3049S, 250/80 psi 1,000 Gal. 316SS, 50/75 psi jkt 750 Gal. 31688, 75 & FV/50 psi 750 Gal. 304SS, 50/60 psi

600 Gal. 316SS, 3000psl, 10 HP 600 Gal. SS, 50 pal, 1.5 HP XP 500 Gal. 316SS, 55 & FV/55 pai 100 Gal. 316SS, 15/50 psi 100 Gal. 316ELC SS, 500/90 psi

★★★ SPECIAL OFFER ★★★ 1-UNUSED, nover installed Krauss Maffel Turbo Tray Dryer, 29 trays, 9 9"din., 316 L SS, all other wetled parts 316 SS, complete unit. PRICED TO SELL

MIXERS

4.5 Gal. Kneader Mester Cont., SS w/kt. 5 Gal. AMK 304SS Jcktd. Kneader Extruder 15 Gal. W.C. Readco Sigma Blade Dbl. arm 25 gal. Readco DBL/Arm Sigma Blade |ktd. SS construction 16 H.P. 80 Gal. Hockmeyer Pony, SS contacts, 7.5 HP

100 Gal., SS, Sigma Blade, Jcktd. 40 HP

200 gal. W-P CS dble arm Sigma blade, 20 250 gal. AMK Kneader Extruder, Sigma Blades, CS construc, 40 paig, trough jkl. 500 Gal. S-W Rubber Cement, CS, 2-10 HP

motors (2) Unused 1000 Gal. Sanitary 31688 B-K Dbl. Motion Change Can; 100&FV/165 PSl. 125HP

Littleford Model FKM-2000, SS, w/choppers Littleford Model FM 100 Sanit. SS w/choppers Prodex Henchel 3.5 Cu. Ft. Mdl. 35 J SS, SS Const.
7 Cu. Ft. 304SS Nauta Model MBX-70
10.6 Cu. Ft. Nauta D-105, CS
15 HP Hockmeyer Hi Speed Disperser
Welding Eng. Model 2FV1V2S Twin screw
Extruder, 85, Contacts, 150 pel

PLUS LOTS - LOTS MORE

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Over 15,000 pieces of process equipment in stock...call today: CHAINT LIQUIDATION

Complete Pharmaceutical/Chemical Plant



PLANT WAS IN OPERATION THRU APRIL OF 1986 COMPLETE PLANT EQUIPMENT FOR SALE INCLUDING: PILOT...FULL SCALE MAINPLACEMENTS (SQUEENERY, PLANT OTRIFIES

COMPLETE REACTOR SYSTEMS...WASTE THEATMENT PLANT ...ROTARY VACUUM DRYERS... CESTITIEUGES...TANK FARMS ...AND WITCH MORE!
JUST A PARTIAL LISTING OF FOURTHEAT:

医乳脂溶出 排戶地 计多点 ALIA16SS EQUIPMENT COMPLETE WITH CONTROLS, PLOWS, SET UP FOR NITHOGEN PURGE EACH INDIVIOUALLY SIGN MODERN D 48"x24" SHARPLIS SS, HYDRAUELC DRVC (*) 40"X24" SHARPLES SS, HYDRAULIC DRIVE 30"X15" SHARPLES "TOROMADO: MA (IC, " 100 WITH HER PRANCIC DIAM" (3)

> COMMUNICATIONS 3, 25, 30, 40, 100, 125 TOH

CONDUCTE THE RESERVED BERRY INGERSOLL RAND XLE-16-10X7, 150 HP, 100 PSIG (3) INGERSOLL HAND XI E-15 %-10x7, 125 HP, 70 PSIG

DOUBLE CODE VACUARIO SYSTEMS DEDICTRICH G/L, 60 CU. FT.

PEAUDIEI G/L, 70 CU. FT.

DEVINE 316SS, (1) 30, (1) 70, (2) 90 CU. FT. SYSTEMS

316SS ROTARY VACUUM DRYER SYSTEMS: (1) 110, (2) 166 CU. FT.

SHELF: 6 VACUUM DRYER SYSTEMS **VARIOUS SIZES & MATERIALS OF CONSTRUCTION**

FUTURE

FILTER PRESSES: TRITEL PRESSURE LEAF (6) STAN 18" DIA., 19 & 21 CHAMDERS, SS SPERRY 56", 28 & 35 CHAMBERS (4) VACUUM BELT EXTRACTORS: 2 HIMCO 2'x 12', 310SS VAC. WELT FILTER SYSTEMS

> FIRE PERVENITON ECOUPPERED FOR TOO FLECTRIC POWERED FIRE PUMP 150 HP

> > MIXERS

100 CU. FT. MUNSON SS DOUBLE RIBBON BLENDER SYSTEM LITTLEFORD MDI. FKM2000-0, 73.5 CU. FT. 70 CU. FT. DAY, SS RIBBON BLENDER SYSTEM

BAUERMEISTER TURBOMILL, 40 IP, COMPLETE SYSTEM FITZPATRICK MDL. DB COMMINUTOR 7.5 HP FITZMILL MDL. DK8012 COMMINUTOR ENTOLETER MILL 6 HP, MDL. M1112G1-23

VARIOUS ...MAKES...MODELS...SIZES...MATERIALS OF CONSTRUCTION TOO NUMEROUS TO MENTION

REACTORS

GLASS LINED (1) 3,000, (7) 2,000, (22) 1,000 (8) 500, (2) 300, (1) 200, (1) 130, (4) 100, (4) 50, (1) 30 GALLON ALL REACTORS EQUIPPED WITH TW DRIVES, MECHANICAL SEALS MANY WITH VARIABLE SPEED DRIVES, GLASS RECEIVERS & GRAPHITE HEAT EXCHANGER STAINLESS STEEL 316 & 316 ELC (1) 4,000, (1) 3,000, (3) 2200, (6) 2000, (1) 1,300, (2) 1,250, (9) 1,100, (7) 1,000, (7) 500, (2) 300, (1) 30, (1) 10 GALLON

BMITH MOLECULAR ROTA-FILM MDL. 700-12-P. SKID MOUNTED SOLVENT RECOVERY SYSTEM.
OTHER DISTILLATION COLUMNS AVAILABLE

* MAST C * MAST C * MAST C * 10.000 GAL. HAST VERT. MIX TANK 6D PSI 4,000 GAL. HAST C REACTOR 126 AND FV/175

EW 1900 SQ. FT. HAST C HEAT EXCHANGER (E) <20 (GU) 1717, SSERIOT EVACY OR VERS (COMP. W/DUST COLLECTORS.

(I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC (COMP.) (I) COORDENSOR ETC.) (

'I'ANIZS/RECEIVERS
GLASS LINED RECEIVERS & CHEMSTORS (2) 2,000, (10) 1,000 (1) 500, (4) 250, (5) 100, (2) 50 GALLON

STAINLESS STEEL.
(1) 5,000, (1) 4,000 (1) 3,000, (8) 2,000 (3) 1,500, (4) 1,000, (1) 800, (7) 500, (1) 300, (3) 250, (5) 200, (1) 160, (3) 100, (3) 50 GALLON

TANK FARMS
GLASS LINED: (2) 10,000, (1) 5,000, (2) 2,000 GALLON
STAINLESS STEEL 316SS & 316LSS: (10) 10,000, (1) 6,000 (3) 7,500, (2) 6,000,
(3) 5,000 (3) 4,000 GALLON
KYNAR LINED: 30,000 GALLON
HERESTEEL SUBED: (3) 10,000 GALLON

HERESITE LINED: (1) 10,000 GALLON LITHCOTE: (1) 10,000 GALLON RUBBER LIMED: (3) 10,000 GALLON FRP: (1) 12,000 GALLON STEEL: (1) 15,000 (1) 8,000, (2) 6,000, (7) 1,000 GALLOH

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1.0, 1.5, 5.0 MM BTU /HR DOWTHERM OIL HEATERS
40 TON AMMONIA REFRIGERATION COMPRESSOR (2)
14"X20" STAINLESS STEEL CONTACTOR COLUMNN
32"X24", 30"X42", STAINLESS STEEL PACKED COLUMNS
4,627 CFM INGERSOLL HAND CENTRIFUGAL COMPRESSOR
40 HP INGERSOL RAND AIR COMPRESSOR
VACUUM SHELF DRYERS (4)

40 HP INGERSOL HAND AIR COMPRESSOR
VACUUM SHELF DRYERS (4)

142 CU. FT. SS, ROTARY VACUUM DRYER SYSTEMS (2)

125 CU. FT. STRUTHERS WELLS 304SS & CS ROTARY VACUUM DRYERS
100 CU, FT. CS ROTARY VACUUM DRYER (2)
(2) 90 A 80 CU. FT. SS ROT. VAC. DRYERS
86" SHRIVER POLYPRO FILTER PRESSES (9)
42" SHRIVER CAST IRON FILTER PRESSES (9)
42" SHRIVER POLYPRO FITLER PRESSES (11)
42" SHRIVER RUBBER FILTER PRESSES (13)
43 SQ. FT. STAINLESS STEEL PLATE HEAT EXCHANGERS (8)
5,000 GALLON STAINLESS STEEL KETTLES, 15/7.5 HP (2)
1,500 GALLON STAINLESS STEEL KETTLES, 5 (15)
9CHOLD DISPERSER MILL 76 HP
SAND MILL MDL. SM-250, 60 HP (2)
5 CU. FT. STAINLESS STEEL RIBBON BLENDER
4TH MIKRO PULVERIZERS (4)
2,000 GALLON 316SS REACTORS, 1,000 PSI (2)
1,200 GALLON STAINLESS STEEL, REACTOR 10000psi
2,000, 1,500, 1,000, 750, 500, 300 GALLON GLASS LINED REACTORS MANY UNUSED

4000, 5000, 6000 GAL, RUBBER-LINED AGITATED REACTORS, VERY ATTRACTIVE PRICES I

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CHEMICAL MARKETING REPORTER

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Int'l. Dismantling & Machinery Corp.
P.O. BOX 388 SOUTH RIVER N.J. 08882

August 18, 1986

KETTLES-REACTORS, SS 30,000 gal. 304SS fermentors, 14' x 24', 25 psi/vac.

colls, 200 HP agit. (4) 5,000 gal. 30498, atm. Int., 75 pal jkt., agit 5,000 gal. 3045S kettle, 16 pel jkt., 5 HP sgit. 3,500 gal. 316SS kettle, 20 pel jkt., 7½ HP sgit. 2,500 gal. 316SS kettle, 20 pel jkt., 7½ HP sgit. (2) 2,500 gal. 304SS kettles, jktd., 5 HP sgit. (3) 1,160 gal. 304SS reactor, 15 pel int., 25 pel jkt., 5 HP sgit. 900 gal. 30488 reactor, 75 pel/FV int., 150 pel jkt., agit. 500 gal. 30488 reactor, 300 pel int., 75 pel jkt., colle (3) 500 gal. 30459 reactor, 150 psi int., 150 psi jkt., 5 HP agit 300 gal, 3168S reactor, 75 pai/FV int., 60 pai jkt. (50)... 3168S and 304SS reactors and kettles from gation to 400 gatton... call for list.

BIG PFAUDLER 316SS REACTORS

(3) 15,000 gal. Plaudler, 316\$\$, 12'6"x 15', 100 pai, 200 psi jkt. Agit. (4) 10,000 gal. Plaudier, 31695, 11'6''x 12'4", 100 pst, 180 pst, lkt. Agit.

REACTORS-GLASS

2 gal. Pfaudier, 750 psi/FV, 700 pei jkt. 20 gal. Pfaudier, 35 psi, 100 pei jkt., egit. (2) 20 gal. Přaudier, 15 při, 100 při jkt., egř. (2) 30 gal. Přaudier, 25 při, 100 při jkt. 50 gal. Přaudier, 25 při, 20 při jkt., egřt., 1975 100 gal. Přaudier, 25 při, 90 při jkt., egřt. 150 gal. Přaudier, 25 při/vac., 90 při jkt., agřt. 300 gal. Glascote, 25 při/vac., 90 při jkt., vári-driva 500 gal. Přaudier, 100 při/vac., 90 při jkt., vári-driva 500 gal. Přaudier, 100 při/vac., 90 při jkt., vári-driva 500 gal. Pfaudler, 100 pal/vac., 90 pal kt., vari-drive agit.
600 gal. DeDietrich, 85 pal/vac., 105 pal kt., 5 HP agit.
750 gal. Pfaudler, 25 pal, 85 pal kt., 5 TW agit.
1,000 gal. Pfaudler, 100 pal, 90 pal kt., 10 HP agit.
1,000 gal. Pfaudler, 75 pal/vac., 90 pal kt., 10 HP agit.
1,500 gal. DeDietrich, 100 pal/vac., 90 pal kt., 1881,
1,500 gal. Pfaudler, 100 pal/vac., 90 pal kt., 15 HP agit.
2,000 gal. Pfaudler, 100 pal/vac., 90 pal kt., 15 HP agit.

AUTOCLAVES

lave, Urea, 46'' x 46' high, 31658, 3200 pai, Autoclave, 7' x 7' Biggs, 100 pel Autoclave, 72" x 38' high, 316L 85, 2200 pel Autoclave, 30" x 48' Schneider methano forged steel, 8195 pel, UNUSED Sterflizer, 2'2" x 3' American, SS Sterflizer, 20" x 20" x 36", SS American

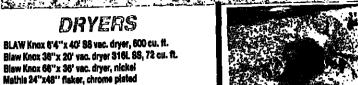
BINS. HOPPERS

5,800 cu. ft. steel, 12'6" x 48', boiled 1,050 cu. ft. 304\$8, 8' x 18', plus cone (3) 450 cu. ft. 30455, 9', x 5', cone 375 cu. ft. 30455, 8'6" x 5', 7' cone 270 cu. ft. 30499, 6' x 14' 95 cu. ft. 30488, 5' x 4', 4' cone

DUST COLLECTORS

225 sq. ft. Fuller, 2400 CFM 765 sq. ft. Carter-Day, 7200 cfm 1460 eq. ft. Carter Day, SS 12000 CFM 2588 eq. ft. Parsons, 7560 eq. ft. 6000 eq. ft. Standard, 75000 CFM, UNUSED (4)

Phone (609) 267-1600



SAWES YOU TIME & TWONE Y.... The Tright

Sandvík 48" x24" 88 belt flaker, UNUSED

Sargent 60" x 45" SS conveyor dryer

Buflovsk 42" x 120" dbl. drum, 160 ps

Aeromatic #8T-5 fluid bed dryer, 5/10 KG

Witte 36" x 10' fluid bed, 85, senit.-cools

Stokes 36 sq. ft. Lyophilizer freeze-dryer

96" x 50' Louisville SS rotary dryer

P-K 20 cu. ft. vac. dryer, 304L 88 (2) Abbe 30 cu. ft. 30498 vac. dryer

Devine 110 cu. ft. 304 SS vac. dryer

Abbe 325 cu, ft. 316SS vac. dryer

Davine 370 cu. ft. 31688 vac. drye

Devine 564 aq. ft. vac. shelf dryer

36" x 1' Ametek, 316SS, 9 eq. ft. 40" x 3' Bird-Young, SS, 48 eq. ft. 4' x 16' Elmco, 316SS, 54 eq. ft., horiz. 6' x 3' Ametek, SS, 55 eq. ft.

2' x 12' Impco, 304 SS, 450 sq. ft.

12 sq. ft. Amatek/Niagara #12, SS

15' dia. Elmoo tilting pan. vac. filter, 316 SS

12 sq. ft. Amster/Hisgara #12, 55 54 sq. ft. Funda, SS, iktd. 55 sq. ft. Artlaan "Dynamic" filter/wesher, SS (2) 320 sq. ft. U.S. Autojet, 3168S, sanit. 1000 sq. ft. U.S. Autojet #1000, 304S8

13" Horman filter press, 21 plates, SS, earlit.

42" Shriver fitter press, 777 sq. ft., hydraulic 48" Shriver At.P recessed fitter press, SS, 276 sq. ft. 48" Clow, polypropylene recessed,1500 sq. ft.

NEW LIQUIDATION

...NORTH JERSEY!

surge hoppers 5-60' C/C steel bucket elevators

5-Cleveland 120 cu. ft ribbon blenders, 60

5-Kielasier beg type dust collectors
1-J.H.Day 200 gal. sigma blade mixer, jktd., 40 HP
2-Moyno Pump # k.88SQ, 5HP.
2-Fill-Stokes form, fill 8 seal units

i-Fairbanks 2008 electronic scale i-Hasser volumetric powder carton filler.

Standard-Knapp case gloers

1-200 gal. 88 tank, jkt. & agit.

2-Erlez #62B vibratory feeder, 58, 60"x 16"x 24"

PULVERIZERS

30" Sparry filter press, 11 cu. ft. 36" Shriver filter press, 546 sq.-ft., hydraulic

Mikro #5MA atomizer, 5 HP Mikro #6MA atomizer, SS Mikro #2DH pulv., SS, 5 HP

Niro 30° 88 spray dryer

Turbulaire 48" x 7' spray dryer

Bowen 72" spray dryer, SS Bowen 96" spray dryer, 85

P-K 5 cu. ft. vac. dryer, 30488

enneberg 38" x 20" rotary dryer, 318 SS

Wyssmont #VTL-24 Turbo-tray dryer, 30498

Pfaudier 165 cu. ft. glass-steel vac. dryers (2)

FILTERS-VACUUM

8' x 4' Elmco, "Elmcomet" polypropylene, UNUSED 8'x8"x 14'-8" Passavant 200 belt press, 250 sq. ft.,1982 (4)

5 x 5' 16'-9' Passavani 200 der press, 200 de il., 1962 (8' x 6' Elmco, 8S, 200 sq. ft., precoat 8' x 10' Dorr-Oliver, 250 sq. ft., 31688, precoat 8' x 12' Elmco, 31689, precoat, 300 sq. ft., (3) 8' x 14' Dorr-Oliver, 31698, precoat, 350 sq. ft. (2) 10' x 10' Elmco, 38 contacts 11' 8' x 16' Elmco, 88 contacts

12' x 14' Komline, 30438, 525 sq. ft., flexibelt disch. (2)

FILTERS PRESSURE

lenneberg 5'z 25' 304S8 rot. hot air dryers, w/cyclons, etc. (2

10" x 100' GATX rot. steam tube dryers, 140 pai (4)

Stokes 8" x 11" down (lake)

Blaw Knox 32" x 90" dbl. drum

Over (50) Bird & Sharples decanters

Centrifuges

Sharples P-5400 D-Canter, 31685, Carbide tiles, late (2) Sharples P-3400 D-canter, 31685, tiles (2) Sharples P-5600 D-canter, 31685, back drive Bird 12" x 30", 31688, Decanter, 20 HP Bird 18" x 28", 31698, Decanter (3) Bird 18" x 42" Decenter, steel, 10/30 Bird 24" x 38" Decenter, 304SS, contour-10 Bird 24" x 38" Decenter, 316SS, contour (3) Bird 24" x 60" Decenter, steel Bird 24" x 86" Decenter, 83, 125 HP Bird 24"x 96" decenter, 3048S, c UNUSED (3)
Bird 32" x 50" Decanter, Monel, contour (2)
Bird 32" x 50" Decanter, 304SS, contour
DeLaval NX214-31B Decanter, 304SS, 20 HP (2)

Sharples AS16V "Super," SS (5)
Sharples AS26V "Super," SS
Delayal BRPX-213-30, 316SS separator/desludgers (3)
Westfalia SAMN15037, Desludger/Separator, 316SS
Westfalia SA14-35-076 3-way separator, 316SS Krupp 10" pusher, 31658, 15 HP Baker-Perkins 19" pusher, 30438, 40 HP Sharples 48" T-1600 suto-basket, 100 HP Tohurst 48" Batchmaster, rubber lined, 30 HP Sharples 48" Tornado-Matic, 88, 25 HP

Delaval 48" Mark 111, 31899 hyd. CENTRIFUGE PARTS... Sharples, Bird, DeLaval, etc. EVAPORATORS

2.4 sq. ft. Rodney-Hunt SS, 3 HP
21 sq. ft. Rodney-Hunt Turbsfilm #4, SS
87 sq. ft. Rodney-Hunt, 304 SS, Turbsfilm
100 sq. ft. Pfaudier, 316L SS, wiped film
600 sq. ft. Goelin-Birminghem dbl. effect, SS
854 sq. ft. Buflovak dbl. effect, SS 1415 eg. ft. Vulcan, 316SS 1688 eg. ft. Roger dbl. effect, SS Swenson 316SS continuous crystallizer, 9" x 14'

TANKS & VITOVEL 30,000 gal., 30489, 14' x 24', colla, 200 HP agit. (4) 30,000 gal. steel propane tanks, horiz. 250 pai (5) 20,000 gal., 30498, 12' x 24' (2) 17,000 gal., 30488, 11' x 24' (3) 17,000 gal., 3161.88, 14' x 13', Agit. (2)

12,000 gai., 316LSS, 14 x 15, Agit. (5) 10,500 gai., 316LSS, 12 x 14', Agit. (5) 10,400 gai., 304SS, 10'6" x 16', agit. 8,000 gai., 304SS, 10'6" x 12' 5,000 gai., 304SS, 9'x9', 25 HP agit. 3,500 gal., 30486, 8'x9' 3,000 gal., 30488, 7'x 10', agit.

MIXERS, BLENDERS

3.5 cu. ft. Henschel #FM15D, 17/20 KW 11.5 cu. ft. Henschel #115JSS, 92/46 HP 11.5 cu. ft. Henterhel #110,55, 92/40 HP
13.7 cu. ft. Lodige #W600/K1200, mix/cool comb.
16 cu. ft. Strong-Scott 30495 ribbon blender (3)
20 cu. ft. P-K twin shell 88
35 cu. ft. Day Nauta, #NBX350, 85
60 cu. ft. Gemco ,TW SH, Sanit, 88
69 cu. ft. Paterson dbl. cone, 88
70 cu. ft. Paterson dbl. cone, 89 Paliman #REF8 pulv., 100 HP
Paliman #RP6 pulv., 50/75 HP
Abbe porcelein pebble mille... 36"x42", 36"x48",
42"x60", 48"x60", 60"x48", (7)
Raymond 50" 5-roller hi-alde mill, 1981, UNUSED,
Raymond #3058 Hi-side roller mill, dbl. whizzer (2)
Raymond #73612 Hi-alde roller mill, dbl. whizzer 70 cu. ft. Day Neuta, #NB700, 10 HP 75 cu. ft. Day Neuta, 58, jktd. 75 cu. ft. Robinson SS ribbon blender, jktd. (2) 98 cu. ft. Day Neuta, SS, 1981 110 cu. ft. J.H. Day, dbi, ribbon, 316SS 120 cu. ft. Cleveland ribbon blenders (5) 120 cu. ft. Cleveland Ribbon Blenders (5) 169 cu. ft. Plaudler, dbl. cone, glass steel jktd., vacu 200 cu. ft. Young, ribbon, 88 316 cu. ft. Sprout-Waldron ribbon blender, 88, jktd. DETERGENT MFG. EQUIP.



(6) Nooter 4'x 14' 316 SS rot. vac. dryers, 1982, NEW

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CHLORINATION SYSTEM, Wallace & Tierne **#V800** floor mounted modular chi-COLUMN, 46" dia. x 15'9", 30488 wash columns, designed for agitation (2) CYCLONE, DuCon Model 700/175 30488 high officiency cyclones, size 210, Type VM (8)

DRYERS, Nooter 4' x 14' rotary vac. dryer, 316L SS shell and jacket, incoloy ribbon agit ASME 100 psi/FV int. & lacket, 100 HP packaged Reliance drive with freq. converte Mech. seals, (6)

EEDERS, Acrison gravimetric weigh leaders, Model 403-15,000-3,000-BDF-4, 304 SS contacts, Model BDF-4 volumetric feeds Size "R" metering, auger and disc. cylinder etc., etc... all SS contacts

FURNACE, C-E Air Co. "Cor-Pak" thermo oxy dizers, direct gas fired 8'x2" W x 7'9" H x 12'6" L (4)

MIXER, Air mix blender system, Koppers-Sp Waldron #36-50, 500 cu. ft., 30495, 8' x 19'10" w/483 sq. ft. dust collector (2) MIXERS, Webb, 59" W x 15"L twin shaft paddle mixers or pug mills, 304SS contacts, Iwin 15

drive, (2) PACKAGING SYSTEM, design to fill bags, palletize, shrink wrap, etc. automated system. PULVERIZERS, Mikro #4TH pulverizers, 125 HP drive, (15) PULVERIŽERS, Mikro #4MP pulverizers, 125HP

drive (5) PULVERIZERS, Mikro #18CB, 71/2 HP, with allock & 30498 disc. chute

PUMPS, Able #H18-57-45 triplex pump, 54

GPM @ 1500 psi, 50 HP PUMPS, Peabody #14DOH-2 cooling lower pumps, 2000 GPM at 140' head, 100 HP SHRINK WRAPPERS, CTX Prod. #PSBV4X46 shrink wraps with oven



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1626 #/HR of Steam at 145 PSI New 1978

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2ND EFFECT EVAPORATOR-10'ID x 9'6" S/S with cone bottom, Monel, %" thick.

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CHEMICAL MARKETING REPORTER

August 18, 1986

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August 18, 1986

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153) (American Lynx) Rollerdam, 7/10. Durr Markeling 880 bgs (44,137 ibs) (Sea Land Adven-

2.400 bgs (124,602 lbs) (Sea Land Voyager) Rollerdem, 7/3. dveer inti 1,440 bgs (82,1,44 lbs) (Sea Land Adventur)

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Algeciras, 7/2. perior Materials 1,800 bgs (83,003 lbs) (American

Lyrix) Rotterdam, 7/10. Floxide 2,400 bgs (124,505 lbs) (American Georgia)

Kemira 840 bgs (334,046 lbs) (Stefan Starzynski) Bre-marhaven, 7/21. 760 bgs (39,590 lbs) (Stefan Starzynski) Bremerhaven,

760 bga (39,690 ibs) (Stelan Sterzynski) Bremerhayan,

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(Yu He) Shanchal, 7/2. VITAMNS Rhone Pouleno 2,843 ctn (181,928 lbs) (Alva Maerski) Marseille, 7/2. Order 206 mix (0 lbs) (Atlantic Bong) Le Havre, 7/1. YEAST Neetle 400 dms (44,886 lbs) (Ever Lyrio) Le Havre, 7/1.

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ZIRCONIUM OXIDE Magnesium Elektron 180 dms (40,873 bs) (Koin Express) Greenock, 6/30.

Acid Rain Bill Is Put on Hold

Prospects for Congress passing legislation to control acid rain pollution dimmed considerably last week as the House Energy and Commerce Committee put off action on the matter until September.

The postponement came after Republican opponents used stalling tactics to prevent the committee from beginning major work on the Acid Rain Deposition Control Act of 1986, which is co-sponsored by nearly half of the committee's 43 members.

Congress adjourned Friday for a threeweek recess, returning September 8 with one month left in the regular 1986 session and acid rain bills still awaiting action by Energy and Commerce and the Senate Environment Committee. "We're working against the clock," said

Rep. Henry Waxman, (D-Calif.), the chief sponsor of the bill to require a 37 percent reduction in sulfur dioxide emissions from coal-fired boilers by 1997.

The proposal, which is strongly opposed by

manufacturers, would also require cuts in nitrogen oxide emissions from vehicles and

Peter Sipple, manager of energy policy for Air Products and Chemicals, Inc., has testified that the bill would cause major industry expenses from fuel switching, increased transportation costs, and capital costs for installation of scrubbers.

Speaking on behalf of the National Associntion of Manufacturers, Mr. Sipple has said the bill would impose large costs of manufacturers both through higher prices for electricity and through costs imposed directly on Industrial boilers and industrial processes.

Although Rep. Waxman refused to pronounce his bill dead for the year, he acknowle edged last week that "it's discouraging with the time running out."

When the Enegy and Commerce Committee resumes consideration of the legislation opponents are expected to continue their slowdown by offering time-consuming amendments and objecting to the committee meeting while the House is under the fiveminute rule.

Environmentalists, who have been lobby ing for the bill, were also discouraged because they hoped to see the measure ready for floor debate by early September.

"It will pass this committee, but it will be hard work getting it to the floor on time" said a spokesman for the National Audubon Socity. "I don't think we'll see a bill on the Senate floor unless the House acts first," he

A spokesman for US Public Interest Resecarch Group, said the best chance of getting the legislation through Congress this year may be a "lame duck" session after the November elections, a prospect that has been raised by House Speaker Thomas P. O'Nelli (D-Mass.).

Rep. Waxman estimates the bill will cost industrial coal users and utility customers about \$3 billion per year to comply with the emissions reductions.

But Midwestern congressmen say that while the measure limits increases in residential bills to 10 percent per year, electricity rates will rise higher in some states and dustries will be hurt because there is no cap on how much they might be required to pay.



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high, with stainless steel contact parts. May be shipped in one piece. Steam heated.

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Rolo-Louvre mdl 900-32, 9' dia x 32' long, steam heated, 30 HP motor, all fans & Flex-Clean dust

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Model SJS8X52. 8" dla x 52" long, stainless, Jacketed, pilot

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COATINGS & PLASTICS

Continued from Page 29 by one source to be about 75 million pounds

der year. Demand for the resins has gone down

steadily over the past two years; in 1985, it fell 7 percent from the previous year, to 82 million pounds. It is expected to fall further this year.

Producers report that Taiwan, Korea and Japan have adopted aggressive marketing policies, and are said to be selling the resins at from2 to 2.5 cents per pound cheaper than domestic producers. This has exerted some pressure on pricing, particularly in coastal areas. Sources say that imported material so far has been confined to coastal regions, feeding out of warehouses into localized areas 300 to 400 miles inland; they do not affect the central regions of the US, but, are still expected to satisfy 8 million pounds of domestic SAN demand this year.

On the positive side, sources see SAN encroaching on polycarbonate in some applications, and higher than GNP growth is expected in the compounding and medical molding market segments.

PRIME PIGMENTS

IRON OXIDE - Soft prices and overcapacity continue to dominate the iron oxide market. Sources say that selling prices have declined an average of 10 percent from last year's levels. Synthetic reds, blacks and yellows are listed by various producers at 60c. to 70c. per pound, 65c. to 77c. per pound and 60c. to 71c. per pound, respectively. Natural grades are said to be listed at from 30c. to 45c. per pound, depending on quality.

Although one major producer sees capacity and demand as being well-balanced, smaller producers complain that capacity still far outstrips demand. One victim of this overcapacity, Reichard-Coulston Inc., a firm which produced iron oxide pigments exclusively, went bankrupt earlier this year.

Although one major supplier feels that discounts have largely dried up, except in the case of largest volume customers, smaller

producers complain that current discounts of 10 to 25 percent off selling prices (already substantially lower than list prices) have been common for large-volume buyers of

both synthetic and natural types. Previous attempts to increase prices have failed, with a serious effect on profits — in the past, producers have undermined price increase moves through competitive discounting, two markets sources explain. The last effective price increase for synthetic iron oxide was in 1985; one producer notes that prices for natural oxides have not changed in the past three years.

Imports have played a role in depressing prices, sources relate, particularly in the synthetic pigment and magnetic tape segments of the market. For the past several years, Japanese and other off-shore producers effectively moved the magnetic tape market segment offshore. US customers were reluctant to accept price increases when so much cheaper material was avail-

Producers now see some signs of price stabilization; at least one producer feels that prices are currently at the bottom of an upward curve.

A decrease in the import level is expected in part due to the change in the yen value, and is expected to move some magnetic iron oxide production back to the US. Illustrating this move, Pfizer brought back on line a mothballed magnetic iron oxide plant in Val Pariaso, Ind. this Spring.

Demand in the mature synthetic and natural iron oxide pigment market is expected to continue to grow at the rate of 2 percent per year, as it has for the past 10 years. Demand for synthetic oxide pigments by the paint industry is said to be up by more than 2 percent this year, reflecting paint industry strength.

The magnetic tape segment had been showing high growth before most of it moved offshore. However, one source feels that a trend away from using iron oxide in magnetic computer tape, combined with a move away from computer tape in general, may have some effect on future demand.

In the transparent oxide coatings segment. producers says that July price increases have held; demand is strong, and growth will depend on the US auto industry.

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CHEMICAL MARKETING REPORTER August 16, 1966

August 18, 1986

CHEMICAL PROFILE

a-Methylstyrene

SUPPLY	
PRODUCER	CAPACITY*
Allied, Frankford, Pa	25
BTL, Blue Island, Ill	4.5
Georgia Guif, Bound Brook, N.J	5
Georgia Gulf, Plaquemine, La	10
Texaco, El Dorado, Kan	2.5
USX, Haverhill, Ohio	<u> 32</u>
Total	79

'Millions of pounds annually of alpha-methylstyrene (AMS) recovered as a byproduct of phenol-acetone operations. Allied and USX can produce refined, 99 percent pure material. Georgia Gulf upgraded its facility in July and now has the option of producing fully refined material. The other producers make semi refined, or 95 percent pure material. BTL acquired its AMS facility from Clark Chemical Corporation, in October 1985. Georgia Guif restarted its Bound Brook phenol-acetone facility last February after a shutdown of one year. The company brought on 2 million pounds of additional capacity at Plaquemine in July 1985 in conjunction with expanded phenol-acetone output at the site. Texaco acquired Getty's El Dorado unit in a July 1984 merger. USX reduced its annual capacity by 6 million pounds when it enhanced its phenol yield at the Haverhill unit in April 1985. Amoco produces more than 34 million pounds of AMS annually as part of its continuous process for the manufacture of the company's proprietary polymer, "Resin 18." Profile last published 8/29/83; this revision 8/18/86.

DEMAND

1985: 48 million pounds; 1986: 49 million pounds; 1990: 54.5 million pounds.

Historical (1976-1985): 2.2 percent per year; future: 2.5 percent per year

Historical (1956-1986): High, 44c. per pound of refined product, tanks, works; low, 12c. per pound, same basis. Current: 28c. per pound same basis.

ABS resins, 38 percent; adhesives and waxes, 13 percent; polyester resins

and miscellaneous, 9 percent; exports 40 percent.

ABS resins are a key growth area for AMS with growth pegged around 3 percent annually. Export values have firmed along with the strengthening dollar.

WEAKNESS

The entry of Georgia Pacific as a producer of 99-percent-purity material adds a potential of 8 million pounds of supply to the refined market. Prior to Georgia Guif's upgrade, supply totalled 57 million pounds with a demand of approximately 45 million pounds in 1985.

OUTLOOK

ABS resins are expected to grow by 3 percent annually while all other AMS end uses are pegged for 2 percent annual growth for the next five years. While AMS is a byproduct of larger and more essential acetone-phenol operations its status may improve under the following scenario: New phenol-acetone plants produce little if any AMS and debottlenecking efforts tend to reduce AMS output. This could lead to tighter supplies worldwide, and improved returns on exports.

Petrochemical Who's Who

The DeWitt & Co. world petrochemicals directory* is bigger and better this year. The Houston consulting and market research firm has put out the fourth edition of its directory in two volumes, one a commercial edition and the other an information services edition. Primary reason for separating the two editions is to make the directory more compact. There is no overlapping of individual listings between the two editions, DeWitt

The commercial edition of the directory is designed as a tool for commercial people in the petrochemical industry and puts emphasis on those who have authority to conduct business. The volume includes more than 2,000 company locations and over 4,000 names of individuals active in the international, commercial petrochemical business.

The information services edition is designed for use by people in the consulting, planning and market development end of the petrochemical business. Again, listings include over 2,000 company locations and more than 1,500 names of individuals active in the international petrochemical business.

In the back of each volume is an alphabetical listing by individual's name, plus useful data on yield factors for converting basic petrochemicals to derivatives, properties of selected chemical compounds, energy conversion factors and light hydrocarbon fuel values and useful constants and conversions.

*WHO'S WHO IN WORLD PETROCHEMICALS. Two volumes. Paper. 422 pages. 8½ X 11 Inches. DeWitt & Co., 16800 Greenspoint Park, North Atrium, Suite 120, Houston, Tex. 77080-2386. 875 per volume in the US; \$80 per volume outside the US.

Chemicals Handbook

This handbook* of chemical production processes contains current information and descriptions of the various technologies involved in the production of major organic and inorganic chemicals and polymers.

Thirty-nine specialists have contributed authoritative material that provides a detailed treatment of the world's licensable chemical process production technologies. The contributors are engineers and scientists from the nineteen different firms that are the licensors of the individual processes, including companies from the US, the UK, the Federal Republic of Germany, Japan and the Netherlands.

Each process chapter examines the process chemistry and thermodynamics involved, the product and byproduct and byproduct specifications, wastes and emissions, and the locations and specifications of all plants. Both capital and operating costs are given for each process, and a general description of the process typically includes charge and product yield, purity and a simplified flow diagram.

*HANDBOOK OF CHEMICALS PRODUCTION PROCESSES. Edited by Robert A. Meyers. Cloth 6½ X 9½ Inches. 464 pages. McGraw-Hill Book Company, 1221 Avenue of the Americas, New York, N.Y. 10029, \$69.50.

Patent Law

This practical volume* explains current patent law without resorting to confusing legal jargon. It is written specifically for engineers and other technical people who are involved in developing and using technology commercially. However, since it is an overview of protecting intellectual property, it can be used by anyone who is not limited to any particular industry. The author explains the underlying reasons and philosophy of having a patent system. He outlines the crucial distinctions between patents, trademarks, copywrights and trade secrets.

*PATENT LAW FOR THE NON-LAWYER. By Burton A. Amernick Cloth. 81/4 X 111/2 inches. 177 pages. Van Nostrand Reinhold, 115 Fifth Avenue, New York, N.Y. 10003. \$34.95.

BOOKSHELF // JOBS & PEOPLE {{{ }}} JOBS & PEOPLE

president for worldwide planning and development for Akzo Chemie. He has also been named senior vice-president of Akzo Chemie America

CRAIGR. KENWORTHY has been named technical representative for the Mid-Atlantic area by S.P. Morell & Co. JOHN M. BATT has been appointed marketing manager for Atochem Inc.'s "Forex" brand of halon fire extinguishants ... FRANK J. WUERTZ has been appointed director of business planning for the Specialty Chemicals Division of

DAVID M. TRUAX has been named vicepresident of sales for Betz PaperChem Inc. ... BRUCE E. STREETER has been appointed echnical manager of insulated glass scalant in the Morton Chemical Division of Morton Phiokol Inc. ... THOMAS C. CERAMI has been named branch manager in Shreveport, La., for industrial gas division sales at Air Products & Chemicals Inc.

ANDREW J. POLO has been appointed corporate traffic manager at Degussa Corporation ... DAVID PASHALIDIS has been appointed manager of investor relations at Dow Chemical Company.



C. Kenworthy

Eastman Chemical Fills Two International Posts

Eastman Chemical Products Inc. has appointed James L. McGee and James C. Haas to new international marketing posts.

Mr. McGee has been named marketing manager for Asia and Australia. He was previous district marketing manager for East-man Chemical International Ltd. in Hong

Mr. Haas, who succeeds Mr. McGee as Hong Kong district marketing manager, was previously an international marketing spe-



MICHAEL D. MILLER has been appointed Midwest account executive for A-C Polyethylene, a unit of Allied-Signal Inc. ... RALPH G. COKER has been named general manager of Coastal Refining & Marketing Inc.'s Corpus Christi, Tex., refinery THOMAS BITTNER has been appointed



vice-president and general manager of Polychreme Corporation's European opera-

DR. RONALD W. SCHMITT has been named senior vice-president and chief scientist for General Electric Company ... BRUCE G. KENDRICK has been named polypropylene business manager at El Paso Products Company and ED N. THEIS has been ap-



William J. Reid. who has been named president and chief executive officer of Sungene Technologies Corporation, Palo Alto, Calif. Mr. Reid is a 30-year veteran of the chemical indus-

NUNZIO F. POLLIFRONE has been named monomer production supervisor in the ICI advanced materials group of ICI Americas Inc., RONALD J. MAITOZA has joined the marketing department of the ICI agricultural products group as a technical sales representative for the Pacific Southwest district, JOSEPH FIORE III has been appointed development chemist for Rubicon Themicals Inc., an ICI unit, and LOTHAR KLINCKE has been named technical service representative for Rubicon

MICHAEL F. HOBEN has been appointed director of pension fund investment services at Union Carbide Corporation ... ROBERT J. DELUCCIA has been named corporate director and division vice-president of the newly formed ethical medicines strategy group of Sterling Drug Inc. ... PAUL J. CLARK has been elected treasurer of Pennwalt Corporation.



Ralston Purina Names **Two in Polymers Division**

Raiston Purina Company has appointed Lucy G. McDonald market research analyst in its Polymer Division and Robert F. Hurst technical Sales Representative in the divi-

Miss McDonald joined the company in 1978 in the Chow Division and transferred to the Protein Division in 1980.

Mr. Hurst joined the company's Raltech Science Service Divison in 1977 and transferred to the Polymer Division in 1979. He was most recently field technical service en-



KENT SNYDER has been named directo licensing at Marion Laboratories, JAMES B. LAUFENBERG has been appointed director of sales for the Wood Care Division and JOSEPH P. LACZ has been named direc-



KENNETH A. PREGLOW has been elopment at Enron Chemical Company.

K.N. ROBERTSON has been named vicepresident for basic chemicals (Americas) at Exxon Chemical Company, J.R. LOWE has been named directorof basic chemicals (Europe) and M.G. HANDFORD has been named worldwide vice-president of fertilizers.

MEETINGS CALENDAR



AUGUST 18, 1986

THIS MONTH

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

LATER ON

AMERICAN CHEMICAL SOCIETY, 192nd annual mee ing, Anaheim Convention Center, Anaheim, Calif.,

AMERICAN MICROCHEMICAL SOCIETY, eastern analytical symposium, jointly with American Chemical So-ciety and Society for Applied Spectroscopy, New York AMERICAN PETROLEUM INSTITUTE, annual meeting,

San Francisco, Calif., November 9-11. ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, CHLORINE INSTITUTE, Fall meeting, The Homestead. 100th International meeting and exhibition, The Requistry Hotel, Scottsdale, Anz., September 15-18. ASSOCIATION OF THE NON-WOVEN FABRICS INDUS-TRY, eighth international conference and exhibition,

Anadian Chemical Producers Association,

NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT, Fall Conference, Marriott Pavillion Hotel, St. Louis, Mo., October 21-23. CHEMICAL MARKETING RESEARCH ASSOCIATION, world chemical congress, jointly with the chemical marketing and economics division of the American Chemical Society, "The Chemical Industry: Where in the World is it Going?", Newporter Resort Hotel, Newport Beach, Calif., September 7-10.

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION.

ATION, seminar on serosol technology, Ramada Hotel O'Hare, Rosemont, IE., October 27-29; 73rd annual meeting, Marriott's Harbor Beach Rosort, Fort Lauderdale Fia December 7-11

Hot Springs, Va., September 21-25.
COMMERCIAL DEVELOPMENT ASSOCIATION, impact of mergers and acquisitions on the future of technology-driven corporations, Hershey Hotel, Hershey, Pa., October 26-29.

COUNCIL FOR CHEMICAL RESEARCH, annual meeting,

COUNCIL FOR RESPONSIBLE NUTRITION, annual meeting, "Health Messages: New Directions and New Opportunities," J.W. Marriott Hotel, Washington, D.C., September 7-10. EUROPEAN PETROCHEMICAL ASSOCIATION, SURVINI

meeting, Monte Carlo, Monaco, September 28-Octo-ber 1; distribution meeting, October 19-October 22, FERTILIZER INSTITUTE, world fertilizer conference, "Global Trading Patterns." Hyatt Regency Hotel, San Francisco, Callf., September 14-16. FERTILIZER ROUND TABLE, Sheraton liner Harbor Ho-

tel, Baltimore, Md., November 17-19, FIRE RETARDANT CHEMICALS ASSOCIATION, Fall conference on proper processing and selection of flame retardants, Klawah Island, S.C., October 19-22.
FRAGRANCE MATERIALS ASSOCIATION OF THE UNITED STATES, 10th International congress of ea-sontial oils, fragrances and layers, Oral Shorerism

Hotel, headquarters hotel, Washington, D.C., Novem-

NATIONAL ASSOCIATION OF CHEMICAL DISTRIBUTIONS TORS, 15th annual meeting, Ritz-Cariton-Naples Hotel, Naples, Fia., December 2-8.

November 3-5.
PULP CHEMICALS ASSOCIATION, 13th Intermetion

Plasitos Engineers, Georgia World Congress Center, Atlanta, Ga., October 8-10.

SYNTHETIC ORGANIC CHEMICAL MANUFACTURERS ASSOCIATION, OSHA compliance trade fell and sem-inar, Intercontinental Hotel, New Orleans, La., Sep-tember 25-26.

BUSINESS BRIEFS



BUSINESS BRIEFS

DART & KRAFT company's Dartoo Manu-latining increubskilary has published a new docked describing injection molding proce-rate. The eight-page brochure discusses the processibility of the region on conventional Accessability of the resins on conventional injection molding machinery, with sections to resin handling, setup/shutdown procedures and part/mold design.

designed for use in jet and beam dyeing made in the high resistivity and solvent activity of its strong ranges and other applications. The agent, called "Intraformil," is described in most chemical systems. A technical object of the product is available from the Darkita for the product is available from the Company Dyes & Chemical Division in Controlled Agent (Controlled Systems). A technical object is available from the Darkita for the second in the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled for the product is available from the Controlled frug-delivery dealing of the controlled frug-delivery dealing of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery deality of the controlled frug-delivery and facility will "significantly expans" flavor and duction capacity of the company and the product is available from the product is available from the product is available from the controlled frug-delivery deality will "significantly expans" flavor and duction capacity of the company and for the transmission of drugs through the solution in Alabity for the points in Alabity for the points in Alabity for the points in Alabity flavor and duction capacity of the company in Alabity flavor and for the company in the South for the product is additived and the controlled frug-delivery and duction

ture cured unsaturated polyesters, for con-version into custom marble and reinforced NMS PHARMACEUTICALS Inc.'s Synorex version into custom marble and reinforced line, subsidiary has filed US patents covering plastic products, according to St. Louis, Mo. the use of new penetrating enhancers for divison of the Bto-Test Company, a

Chompton & Knowles Corporation has introduced a non-silicone antifoaming agent designed for use in jet and beam diving many applications have shown that the high registivity and solvent activity of its the high registivity and activity activit

CHEMICAL MARKETING REPORTER.

Georgia World Congress Center, Atlanta, Ga., Octo-

CHEMICAL MARKETING REPORTER. .

CONFERENCE BOARD, business outlook conference, August 18, 1986

sixth annual meeting, Rio i Brazil, November 23-25.

NATIONAL PAINT & COATINGS ASSOCIATION, 9817 annual meeting, Atlanta Hilton Hotel, Atlanta, Ga.

PULP CHEMICALS ASSOCIATION, 13th International navel stores meeting, Weldorf-Astoria Hotel, New York, September 15-17.

SOCIETY OF CHEMICAL INDUSTRY, chemical industry medal dinner, Plaza Hotel, New York, October 15, SOCIETY OF THE PLASTICS INDUSTRY, pleatics show and conference — South, jointly with the Society of Plastics Engagery. Secretary World Congress Center.